SERVICE MANUAL

FLAT PANEL MONITOR

SONY®

PFM-500A1WU/PFM-500A1WE

SAFETY CHECK-OUT
(US MODEL ONLY)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it, Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0. 5 mA (500 microampers).
Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe is not accessible, connect a 60 - 100 wattstrouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both sltos, if necessafy, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

Fig. A. Using an AC voltmeter to check AC leakage.

Fig. B. Checking for earth ground.

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Operating Instructions
Mode d'emploi
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Istruzioni per l'uso

PFM-500A1WU
PFM-500A1WE

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WARNING

Owner's Record

The model and serial numbers are located on the rear. Record the model and serial numbers in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

For the customers in the U.S.A.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For the customers in Canada

This Class A digital apparatus complies with Canadian ICES-003.

For the customers in Europe

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

For PFM-500A1WE users

THIS APPARATUS MUST BE EARTHED

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow : Earth
Blue : Neutral
Brown : Line

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Voor de klanten in Nederland

Bij dit produkt zijn batterijen geleverd.

Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

The socket-outlet should be installed near the equipment and be easily accessible.

Note

When you connect a computer to this monitor, attach the supplied ferrite cores. If you do not do this, this monitor will not conform to mandatory FCC/IC/CE (EN55022) standards.

Attaching the ferrite cores

Set the ferrite cores on the both ends of the AC power cord. Close the lid tightly until the clamps click.

Precautions

On safety

- Operate the unit on 100 to 120 V AC or 220 to 240 V AC.
- The nameplate indicating operating voltage, power consumption, etc. is located on the rear.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for several days or more.
- To disconnect the AC power cord, pull it out by grasping the plug. Never pull the cord itself.
- When the unit is installed on the floor, be sure to use the removable foot.

On installation

- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- When you install multiple equipment with the unit, the following, such as Remote Commander's malfunction, noisy picture, noisy sound, may occur depending on the position of the unit and other equipment.

On PDP (Plasma Display Panel)

- There may be some tiny black points and/or bright points on the PDP. These points are normal.
- Do not display a same still image on the screen for long, consecutive time. Otherwise, the afterimage may appear on a part of a panel since the brightness of the part of the picture becomes high due to the consecutive display of the picture. Use the screen saver eventually to equalize the screen display.

On cleaning

To keep the unit looking brand-new, periodically clean it with a mild detergent solution. Never use strong solvents such as thinner or benzine, or abrasive cleaners since these will damage the cabinet. As a safety precaution, unplug the unit before cleaning it.

On repacking

Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it as illustrated on the carton.

If you have any questions about this unit, contact your authorized Sony dealer.

Features

The PFM-500A1WU is 16:9 42-inch flat panel monitor adopting the PDP (Plasma Display Panel) and accepts various types of signals with the built-in scan converter.

Scan converter

The unit is capable of converting the various signal, such as RGB, component, composite, or Y/C signal, to high-race one and perform flexible adjustments of the images, such as zoom and still.

The unit can convert a low-rate input signal into a high-race one and perform flexible adjustments of the images, such as zoom and still.

ID control

You can operate a specific monitor among several monitors by using the index number features.

On-screen menus

You can adjust the settings by using the on-screen menus.

Control S

The control S signal allows remote control of several monitors and a VCR through a single monitor.

Other Features

- Three dimensional comb filter for NTSC Y/C separation.
- Line-correlation comb filter for PAL Y/C separation.
- Up to x4 zooming.
- Accepts infrared or wired Sony Remote Commanders using SIRCS code.
- There are sets of video inputs with audio input: one composite video or Y/C inputs, one RGB input, and one RGB/component input.
- Displays the HDTV signal with tri-level sync signal.
- Memory function for storage of up to five picture settings.
- Automatic signal detection with indication.
- Windows95[1] P&P (Plug and Play) compatible.
- On-screen display in five languages for user-friendly access.
- Power Saving function.
- Self-diagnosis function.
- Picture AGC function—this function automatically adjusts and improves the contrast when a low intensity signal is input.

Warning on power connection

Use a proper power cord for your local power supply.

Plug type	United States, Canada	Continental Europe	United Kingdom, Ireland	Australia, New Zealand	Japan
Power source	VM0030		COX-07	DB	
Female end	VM0089	COX-02	VM0310S	VM0303S	
Cord type	SJT	H05VV-F	CEE (15) 53rd (O.G.)	VTF	VM1500
Minimum cord set rating	10A/125V	10A/250V	10A/250V	10A/250V	15A/125V
Safety approval	UL/CSA	VDE		VDE	DENYODK

1) Windows95 is a registered trademark of the Microsoft Corporation.

To take off the panel cover
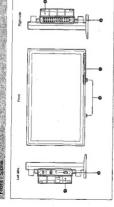
Loosen the screws as illustrated below and take off the panel cover.

Screws

To install the Remote Commander in the panel cover
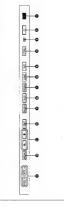
Install the Remote Commander in the back of the left panel cover as illustrated below.

Remote Commander

Note

When housing the Remote Commander, make sure that the top of the Remote Commander faces upward and rear faces outside.

Location and Function of Parts and Controls

Front / Sides

Right side

Front

Left side

To open the panel cover

Loosen the screws counterclockwise and open the cover.

1 Left panel cover
Open it when using the left connector panel.
You can install the Remote Commander in the back of this cover.
For details on opening the panel cover, see the right on this page.

2 Left connector panel
For details on the left connector panel, see "Left Connector Panel" on page 11(EN).

3 Retractable foot
Use for setting the monitor on the floor.
For details on using the retractable foot, see "Using the Retractable Foot" on page 14(EN).

4 Control panel
For details on the control panel, see "Control Panel" on page 8(EN).

5 Right connector panel
For details on the right connector panel, see "Right Connector Panel" on page 9(EN).

6 Right panel cover
Open it when using the right connector panel.
For details on opening the panel cover, see the right on this page.

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Location and Function of Parts and Controls

Control Panel

1 Remote control detector
Receives the beam from the Remote Commander.

2 (standby) switch/ (standby) indicator
Press to turn the monitor on. Press again to go back to the standby mode.
The (standby) indicator lights up in red in the standby mode.
When the indicator flashes, see "Self-diagnosis Function" on page 20(EN).

3 Power indicator
Lights up when the monitor is turned on.
Flashes in the power saving mode.
For details on the power saving mode, see "Turning Off the Power Automatically When There Is No Input Signal (Power Saving Function)" on page 28(EN).

4 CTRL (control) button
To operate the buttons on the control panel, first press this button. Then the bottom light up or flash that allow they can be operated. Press again to deactivate them.

Note
The buttons (except for the (standby) switch) on the control panel do not function if you do not press the CTRL button first.

5 Y/C button
Select the signal input from the Y/C IN jack in the LINE connectors.

6 LINE button
Select the signal input from the VIDEO IN connector in the LINE connectors.

7 RGB2 button
Select the signal input from the RGB2 connectors.

8 Y/U V button
Selects the component signal input from the RGB1 connectors.

9 RGB1 button
Select the RGB signal input from the RGB1 connectors.

10 ENT (enter) button
Press to select the desired item in a menu.

11 ↑/↓/←/→ buttons
Press to move the cursor (→) to an item or to adjust value in a menu.

12 MENU button
Press to make the menu appear.

13 VOL (volume) +/− buttons
Press the + button to increase the volume, or the − button to decrease the volume.

Right Connector Panel

1 RGB1 IN connectors
R (R−Y)/G (Y)/B (B−Y) IN (BNC-type): Input the analog RGB signal or component signal. Connect to the RGB signal or component (Y/B−Y/R−Y) signal output of a computer or video equipment.
This unit also accepts the HD analog component (Y/PB/PR) signal. Input the PB signal to the B (B−Y) IN connector and PR signal to the R (R−Y) IN connector.

HD/COMP IN (BNC-type): Input the H sync signal or composite sync signal. Connect to the H sync signal or composite sync signal output of a computer or video equipment.

VD IN (BNC-type): Input the V sync signal. Connect to the V sync signal output of a computer or video equipment.

External sync is selected automatically. See the priority chart below.

Input signal/ connectors	Input sync appears		
HD/COMP IN	H Sync	Comp Sync	—
VD IN	V Sync	—	—
G/Y IN	Sync on G	Sync on G	Sync on G
Sync signal to be selected	H Sync V Sync	Comp Sync	Sync on G

AUDIO IN (L/R) (phono type): Input the audio signal. Connect to the audio output of a computer or video equipment. Connect to the channel L when the audio signal is mounted.

2 RGB2 IN connectors
RGB IN (D-sub 15-pin): Connect to the RGB signal output of a computer.

AUDIO IN (L/R) (phono type): Input the audio signal. Connect to the audio output of a computer. Connect to the channel L when the audio signal is mounted.

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Location and Function of Parts and Controls

1 LINE IN connectors

VIDEO IN (BNC-type): Connect to the composite video signal output of the video equipment.

Y/C IN (Mini DIN 4-pin): Connect to the Y/C signal output of the video equipment.

AUDIO IN (L/R) (phono type): Connect to the audio output of the video equipment. Connect to the channel L when the audio signal is monaural.

2 RGB OUT connectors

These connectors are used as loop-through outputs of the RGB IN connectors **3**.

When the plug is connected to the RGB OUT connectors, the 75-ohms termination of the RGB IN connectors is released, and the signal input to the RGB IN connectors is output from the these connectors.

R (R-Y)/G (Y)/B (B-Y) OUT (BNC-type): Loop-through outputs of the RGB IN connectors. Connect to the RGB signal input or component (Y/B-Y, R-Y) signal input of another monitor.

H/D/COMP OUT (BNC-type): Loop-through output of the H/HCOMP IN connector. Connect to the H sync signal or composite sync signal input of another monitor.

VD OUT (BNC-type): Loop-through output of the VD IN connector. Connect to the V sync signal input of another monitor.

Note

The H/D/COMP OUT and VD OUT connectors are high impedance outputs.

When using these outputs, connect a monitor with high impedance sync input connector, or the picture might be oscillated or disappeared because of the sync signal level mismatch.

AUDIO OUT (L/R) (phono type): Loop-through of the AUDIO IN jacks. Connect to the audio inputs of another monitor.

4 LINE OUT connectors

These connectors are used as loop-through outputs of the LINE IN connectors **1**.

When the plug is connected to the VIDEO OUT connector or Y/C OUT jack, the 75-ohms termination of the VIDEO IN connector or Y/C IN jack is released, and the signal input to the VIDEO IN or Y/C IN jack is output from the VIDEO OUT connector or Y/C OUT jack.

VIDEO OUT (BNC-type): Connect to the composite video signal input of another monitor or video equipment.

Y/C OUT (Mini DIN 4-pin): Connect to the Y/C signal input of another monitor or video equipment.

AUDIO OUT (L/R) (phono type): Loop-through outputs of the AUDIO IN jacks. Connect to the audio inputs of another monitor or video equipment.

5 Service connector (mini DIN 8-pin)

This connector is only for qualified personnel.

6 MONITOR OUT AUDIO (L/R) jacks (phono type)

Output the signal input from the AUDIO IN jacks. Connect to the audio inputs of an audio amplifier (not supplied).

Note

These jacks are variable outputs. Set the volume to maximum position to set the output level to 500 mVrms.

7 CONTROL S IN/OUT jacks (mini jack)

Connect to the CONTROL S jacks of video equipment or another monitors. Then you can simultaneously control all equipment with a single Remote Commander.

To control equipment by aiming the supplied Remote Commander to the remote control detector of the monitor, connect the CONTROL S OUT jack of the monitor and the CONTROL S IN jack of other equipment.

Notes

• If you connect the CONTROL S IN jack to the other equipment's CONTROL S OUT jack, you cannot operate the monitor with the Remote Commander.

• You can use the stereo cable with multi plug instead of the control S cable.

8 SPEAKERS L/R terminals

Connect to speakers with 6 to 16 ohms impedance.

Note

Do not connect the speaker's cord to the monitor and to an amplifier simultaneously, or an excessive electric current might flow from the amplifier and damage the monitor.

9 SERVICE CODE indicator
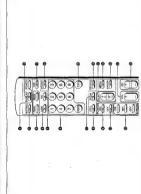
This indicator is only for qualified personnel.

0 ~AC IN socket

Connect the supplied AC power cord to this socket and to a wall outlet. Once you connect the AC power cord, the monitor turns to standby mode.

Left Connector Panel

Location and Function of Parts and Controls

Remote Commander RM-921

POWER switch
Press to turn on the monitor. Press again to go back to the standby mode.

Note
When using multiple monitors, press this switch to turn monitors already on into the standby mode, or turn on monitors which are in the standby mode.

MUTING button
Press to mute the sound. Press this button again or press the VOL (volume) +/− button to obtain the sound again.

RGB/RGB1/RGB2 buttons
Select the signal input from the RGB1 or RGB2 connectors.

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LINE button
Select the signal input from the VIDEO IN connector in the LINE connectors.

Y/C button
Select the signal input from the Y/C IN jack in the LINE connectors.

Number buttons
Press to select the index number.

ZOOM button
Adjusts the zoom. Each time you press the ZOOM button, the picture is magnified by two, three, and four times respectively.

STILL button
Freezes a picture on the monitor screen. Press again to resume normal screen.

POWER ON switch
Press to turn on the monitor. When you use multiple monitors, you can use this switch instead of the POWER switch. When you use multiple monitors, you can use this switch instead of the POWER switch not to affect another monitor which are in the standby mode.

POWER OFF switch
Press to turn the monitor into the standby mode. When you use multiple monitors, you can use this switch instead of the POWER switch not to affect another monitor which are in the standby mode.

ID MODE (ON/SET/OFF) buttons
Press the ON button to make an index number appear on the screen. Then press the index number of the monitor you want to operate and press the SET button. After you finish the operation, press the OFF button to return to the normal mode.

DISPLAY button
Displays the input signal information on the top of the monitor screen. Press again to clear it.

Y/C/V button
Selects the component signal input from the RGB connectors.

CH button
This button does not operate with the monitor.

NTS/MPX button
This button does not operate with the monitor.

DECASS button
This button does not operate with the monitor.

SELECT +/−↓↑ buttons
Press to move the cursor (▶) to an item or to adjust value in a menu.

MENU button
Press to make the menu appear.

ENTER button
Press to select the desired item in a menu.

VOL +/− buttons
Press the + button to increase the volume, or the − button to decrease the volume.

CH +/− buttons
This button does not operate with the monitor.

Installing batteries

Insert two size AA (R6) batteries in the correct polarity.

Be sure to install the negative ⊖ end first

- In normal operation, batteries will last up to half a year. If the Remote Commander does not operate properly, the batteries might be exhausted. Replace them with new ones.
- To avoid damage from possible battery leakage, remove the batteries if you should plan to not use the Remote Commander for a fairly long time.

When the Remote Commander does not work
Check that the ⊖ indicator lights up. The Remote Commander operates the monitor only when the monitor is turned on, or it is in the standby mode.

Note
If you connect the cable to the CONTROL S IN jack on the side of the monitor, you cannot operate the monitor with the Remote Commander.

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Connections

Connecting the AC Power Cord

1 Plug the power cord into the AC IN socket. Then, attach the AC plug holder (supplied) to the AC power cord.

AC IN socket
AC power cord
AC plug holder

2 Slide the AC plug holder over the cord until it connects to the AC IN socket cover.

AC IN socket cover

To remove the AC power cord
Squeeze the upper and lower sides and pull out the AC plug holder.

Installation

Using the Retractable Feet

1 Pull out the knobs and pull down the retractable feet.

2 Turn the retractable feet outward.

3 Push in the retractable feet and lock.

To fix the retractable feet

When the unit is installed on the floor, be sure to fix the retractable feet.
Install the retractable feet stabilizers as illustrated below.

Operating Through Menus

Menu operating buttons

There are four buttons on the monitor and the Remote Commander for menu operations.

Remote Commander / Monitor

SELECT | MENU ◀ ▶ ↕ | ENT

The buttons on the control panel are used for explanation purposes in this operating instructions. The ENTER button on the Remote Commander has the same function as the ENT button on the control panel and the SELECT ▲▼◀▶ buttons on the Remote Commander as same as the ↕↔ buttons on the control panel.

Configuration of the menu

To select the language used in the menu, see page 30(EN).

1 Press MENU.
The main menu appears on the monitor screen.

MAIN MENU
PIC CONTROL
SIZE
CONFIG
COLOR
REMOTE
STATUS

SELECT↕▶[ENT] CANCEL

2 Press ↕↕ to move the cursor (▶) and press ENT to select a menu.
The selected menu appears on the monitor screen.

3 Press ↕↕ to move the cursor (▶) and press ENT to select the items.
The menu for the selected item appears on the monitor screen.

4 Press ↕↕ to adjust or select the setting and press ENT to set.
The setting is registered and the menu returns to the previous menu.

To return to the normal screen, press the MENU button repeatedly until the menu disappears.

Menu Guide

"□" appears next to an item when its function is not available. The availability depends on the types of input signal.

PIC CONTROL menu

This menu is used for adjusting the picture.

PIC CONTROL
CONTRAST   8 0
BRIGHTNESS   8 0
CHROMA   8 0
PHASE   0
COLOR TEMP   HIGH
PICTURE AGC   ON
RESET
SELECT↕▶   CANCEL

1 CONTRAST
Press ↕ to increase the contrast and press ↓ to decrease it.

2 BRIGHTNESS
Press ↕ to make the picture brighter and press ↓ to make it darker.

3 CHROMA
Press ↕ to increase color saturation and press ↓ to decrease it.

4 PHASE
Press ↕ to make overall picture greenish and press ↓ to make it purplish.

5 COLOR TEMP
Select the color temperatures from HIGH (6500K) or LOW (about 5500K).

6 PICTURE AGC
Select ON to improve the contrast automatically when a low intensity signal is input.
For details on the picture AGC function, see "Emphasizing the Contrast of the Picture (Picture AGC Functions)" on page 24(EN).

7 RESET
Select to reset all the factory settings in the PIC CONTROL menu items 1 to 6.
For details on using the reset function, see "Resetting the Picture Settings to Factory Settings" on page 24(EN).

Connections

Connection Example

Before you get started

- First make sure that the power to each piece of equipment is turned off.
- Use connecting cables suitable for the equipment to be connected.
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and other noise.

- To disconnect the cable, pull out by grasping the plug. Never pull the cable itself.
- Read the instruction manual of the equipment to be connected.

Using On-screen Menus

PIC SIZE menu

This menu is used for zooming, positioning, and resizing the picture.

■ H SIZE
Adjusts the horizontal picture size. Press ↑ to enlarge the horizontal size and press ↓ to diminish it.

■ H SHIFT
Adjusts the horizontal centering. Press ↑ to move the picture to the right and press ↓ to move to the left.

■ V SIZE
Adjusts the vertical picture size. Press ↑ to enlarge the vertical size and press ↓ to diminish it.

■ V SHIFT
Adjusts the vertical centering. Press ↑ to move the picture up and press ↓ to move it down.

■ ZOOM
Zooms up the picture two, three, and four times.

■ ASPECT
Set the aspect ratio of the picture to 4:3 or 16:9.

■ RESET
Select to restore the factory settings in the PIC SIZE menu items (■ to ■).
For details on using the reset function, see "Restoring the Original Picture Size and Position" on page 26(EN).

CONFIG menu

This menu is used for adjusting the signal or selecting the language.

■ V ENHANCE
Select OFF normally.
Select ON to sharpen the vertical edge.

■ H FILTER
Select AUTO normally.
Select HIGH when the ringing appears on the screen. Select LOW when the moiré pattern or noise appears on the screen. The moiré pattern or noise decreases even the screen looks a little blurred.

■ DISPLAY
Select ON to display the input signal information for about five seconds on the top of the monitor screen when turning on the power or switching the input signal.

■ POWER SAVE
Set the time period to activate the power saving mode.
For details on the power saving function, see "Turning Off the Power Automatically When There Is No Input Signal (Power Saving Function)" on page 29(EN).

■ LANGUAGE
Select the on-screen language among five languages. Available languages are: English, German, French, Italian and Spanish.
For details on selecting the language, see "Selecting the On-screen Language" on page 30(EN).

MEMORY menu

This menu is used for saving or recalling the settings in the PIC CONTROL, PIC SIZE and CONFIG (only for V ENHANCE and H FILTER) menus.

■ LOAD
Recalls the preset settings.

■ SAVE
Saves the settings.

For details, see "Using the Memory" on page 27(EN).

REMOTE menu

This menu is used for the remote control setting.

■ INDEX NO.
Sets the index number of the monitor.

Note
When you set the number, use the buttons on the monitor.
For details on the index number, see "Operating a Specific Monitor With the Remote Commander" on page 31(EN).

■ REMOTE MODE
Select the Remote Commander mode.
TV: Sony monitors' or TVs' commander
PJ: Sony projectors' commander
OFF: Disables the remote control.
For details, see "Using the Other Remote Commander" on page 32(EN).

■ REMOTE ONLY
Select ON to disable the front control buttons on the monitor. The monitor can only be controlled with the Remote Commander. While REMOTE ONLY is ON, the indicators on the front panel go off.
To cancel the REMOTE ONLY mode, set REMOTE ONLY to OFF with the Remote Commander, or press the CTRL button while pressing the ○ switch. The monitor turns to the standby mode and the REMOTE ONLY mode is canceled.
The setting in this item is still retained when the AC power cord is disconnected.

Using On-screen Menus

STATUS menu

This menu is used for displaying the internal condition of the monitor.

Model name
Indicates the model name.

SERIAL No.
Indicates the serial number.

OPERATION
Indicates the total operation hours.

> **Note**
> The standby mode is not counted as OPERATION time.

SOFTWARE
Indicates the system's software version.

TEMPERATURE
Indicates whether the internal temperature of the monitor is usual.

OK: Usual
NG: Unusual

When the internal temperature is unusual, the "TEMPERATURE NG" message may appear on the control panel and then flashes in red. The ⏻ indicator also flashes.

> **Note**
> When the ⏻ indicator flashes or NG indicates, see "Self-diagnosis Function" on page 30(EN).

FAN
The cooling fans are built in this monitor. This item indicates whether the cooling fans work properly.

OK: Usual
NG: Unusual

When the cooling fans are unusual, NG is displayed and the item flashes in red. The ⏻ indicator on the control panel also flashes.

> **Note**
> When the "FAN NG" message appears, contact your authorized Sony dealer.
> When the ⏻ indicator flashes or NG indicates, see "Self-diagnosis Function" on page 30(EN).

Watching the Picture

Before you start
- Turn on the monitor.
- Turn on the connected equipment and play a video source.
- To display the input signal information on the screen when turning on the power or switching the input signal, set "DISPLAY" in the CONFIG menu to ON.
- To select the on-screen language used in the menu, see page 30(EN).

Switching the Picture

1. Press CTRL on the control panel of the monitor. RGB1, YUV, RGB2, LINE, and Y/C buttons light up.

2. Select the input source to be displayed by pressing the following buttons:

   RGB1: Selects the audio and video signal input from the RGB1 connectors when the input signal is RGB signal.

   YUV: Selects the audio and video signal input from the RGB1 connectors when the input signal is component signal.

   RGB2: Selects the audio and video signal input from the RGB2 connectors.

   LINE: Selects the audio and video signal input from the VIDEO IN connectors or AUDIO IN jack in the LINE connectors.

   Y/C: Selects the audio and video signal input from the Y/C IN connector and AUDIO IN jack in the LINE connectors.

The selected input signal appears on the monitor screen.

You can also switch the input signal from the Remote Commander.

Watching a Still Picture

> **Tip**
> We recommend the input source video equipment equipped with the TBC (time base corrector). If you receive the signal without the TBC, the picture may disappear due to disturbance of the sync signal.

You can freeze the picture with the STILL button on the Remote Commander. To freeze the picture, press the STILL button when the motion picture is displayed.

You can also freeze the picture by simply pressing the ↑ button on the control panel.

To resume the normal screen
- Press the STILL button on the Remote Commander or ↓ button on the control panel again.
- Switch the input signal.

> **Notes**
> - When operating the menu, the ↑ button functions as for the menu operation.
> - The ↑/↓ buttons flash while in the still mode.
> - When you set DISPLAY to ON in the CONFIG menu, the "STILL" display appears on the top of the monitor. To clear the display, set DISPLAY to OFF.

Input Signal and Monitor Status Information Display

Input signal and monitor status information is displayed for a few seconds when turning on the power or switching the input signal. To disable this function, follow the steps below.

1. Press MENU.
   The menu appears on the monitor screen.

(Continued)

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Watching the Picture

2 Press ▲▼ to move the cursor (▶) to "CONFIG" and press ENT.
The CONFIG menu appears on the monitor screen.

```
CONFIG
▶ V ENHANCE    : ON
  DISPLAY      : AUTO
  POWER SAVE   : On
  LANGUAGE
 [SELECT]          [CANCEL]
```

3 Press ▲▼ to move the cursor (▶) to "DISPLAY" and press ENT.
The following menus appears on the monitor screen.

```
DISPLAY      : ON
```

4 Press ▲▼ to set "DISPLAY" to OFF, and press ENT.
The DISPLAY function is disabled.

To activate the information function, set the "DISPLAY" to ON at the step 4 above.

Note
You can display the input signal information anytime by pressing the DISPLAY button on the Remote Commander, regardless of the above setting.

The input signal information list
Color system or horizontal/vertical frequency

Signal type

Input signal	Color system or (vertical) frequency display	
NTSC		
PAL		
VGA* (Text)	31.5 kHz	60 Hz
VGA (Text)	31.5 kHz	70 Hz
VGA (Graphic)	33.8 kHz	60 Hz
HDTV	35.0 kHz	67 Hz
Mac* 16"	35.0 kHz	67 Hz
VESA 800×600	37.9 kHz	60 Hz
VESA 1024×768	48.4 kHz	60 Hz
Mac 19"	49.7 kHz	75 Hz
ATP* 1280×1024	64.0 kHz	60 Hz
Mac 21"	68.7 kHz	75 Hz
VESA 1280×1024	80.0 kHz	75 Hz

a) VGA is a registered trademark of the International Business Machines Corporation, USA.
b) Mac (Macintosh) is a registered trademark of Apple Computer, Inc.
c) VESA is a registered trademark of Video Electronics Standard Association.
d) ATI is a registered trademark of ATI Technologies, Inc.

Note
When inputting the HD/TV signal, input the tri-level sync signal to the G/Y BNC connector.

Actual on-screen display of the monitor status

On-screen display	Significance
31.5kHz / 60Hz (eg.)	The selected input signal is RGB or component video.
525 / 60 (eg.)	The selected input signal is RGB or component video.
NTSC	The selected input signal is in NTSC.
PAL	The selected input signal is PAL.
OTHERS	This input signal is out of the capture range.
NO SYNC	There is no input signal.
MUTING	The sound is muted.
RGB1 RGB	The signal mode of RGB1 is set to RGB.
RGB1 YUV	The signal mode of RGB1 is set to component video.
LINE COMP	Composite video input is selected at LINE.
LINE Y/C	Y/C video input is selected at LINE.
STILL	The picture is frozen.

Adjusting the Picture

While watching the picture, you can adjust contrast, brightness, chroma, and phase to suit your taste. The adjustments can be carried out for each input signal separately. You can also store the adjusted levels in memory.

Adjusting the Contrast, Brightness, Chroma, and Phase

Press MENU so that the main menu appears on the monitor screen and select the "CONTRAST", "BRIGHTNESS", "CHROMA", or "PHASE" from the PIC CONTROL menu with the ▲▼ buttons.

CONTRAST
Select the "CONTRAST" with the ▲▼ buttons and press the ENT button.
Adjust the contrast with the ▲▼ buttons in the range from MIN (0) to MAX (+99).
▲ to increase picture contrast
▼ to decrease picture contrast

BRIGHTNESS
Select the "BRIGHTNESS" with the ▲▼ buttons and press the ENT button.
Adjust the brightness with the ▲▼ buttons in the range from MIN (-50) to MAX (+50).
▲ to make overall picture brighter
▼ to make overall picture darker

CHROMA
Select the "CHROMA" with the ▲▼ buttons and press the ENT button.
Adjust the chroma with the ▲▼ buttons in the range from MIN (-50) to MAX (+50).
▲ to increase color intensity
▼ to decrease color intensity

PHASE
Select the "PHASE" with the ▲▼ buttons and press the ENT button.
Adjust the phase with the ▲▼ buttons in the range from MIN (-50) to MAX (+50).
▲ to make overall picture greenish
▼ to make overall picture purplish

Notes
- CHROMA and PHASE controls do not function with RGB signal.
- PHASE control does not function with component signal.
- PHASE control does not function with PAL color source.
- Do not change the CHROMA+PHASE (NTSC only) level when the selected signal is not NTSC or PAL. Although it gives no effect to the current picture, it does affect the picture of the NTSC or PAL signal which is input later.

Emphasizing the Contrast of the Picture (Picture AGC Function)

When the intensity of the picture is low, this function works to improve the contrast automatically.
Turn on this function when the image source is dark.

1 Press MENU.
The main menu appears on the monitor screen.

```
MAIN MENU
▶ PIC CONTROL
  CONFIG
  SIZE/POSITION
  MEMORY
  SETTINGS
 [SELECT]          [CANCEL]
```

2 Press ▲▼ to move the cursor (▶) to "PIC CONTROL" and press ENT.
The PIC CONTROL menu appears on the monitor screen.

```
PIC CONTROL
▶ CONTRAST     : 80
  BRIGHTNESS   : 00
  CHROMA       : 00
  PHASE        : 00
  COLOR TEMP   : HIGH
  PICTURE AGC  : SETTING
 [SELECT]          [CANCEL]
```

(Continued)

Adjusting the Picture

3 To move the cursor (▶) to "PICTURE AGC" and press ENT.
The following menu appears on the monitor screen.

```
PICTURE AGC : OFF
```

4 Press ↑↓ to set "PICTURE AGC" to ON.

5 Press ENT.
The menu returns to the PIC CONTROL menu.

Restoring the PIC CONTROL Menu Items to Original Settings

1 In the PIC CONTROL menu, Press ↑↓ to move the cursor (▶) to "RESET" and press ENT.
The following menu appears on the monitor screen.

```
RESET : NO
■●SELECT■■   CANCEL■■
```

2 Press ↑↓.
"NO" changes to "YES."

```
RESET : YES
■●SELECT■■   CANCEL■■
```

3 Press ENT
The PIC CONTROL menu items are restored.

To cancel the reset function, press the MENU button before pressing the ENT button.

You can shift the position of the picture so that it fits in the screen, or adjust the vertical and horizontal size of the picture appears on the monitor screen.
You can zoom up the picture making it twice, three, or four times as large as the original size.

Resizing the Picture

1 Press MENU.
The main menu appears on the monitor screen.

```
MAIN MENU
▶PIC CONTROL
 PIC SIZE
 GAMMA
 PJ MODE
 PS MODE
 STATUS
■●SELECT■■   CANCEL■■
```

2 Press ↑↓ to move the cursor (▶) to "PIC SIZE" and press ENT.
The PIC SIZE menu appears on the monitor screen.

```
PIC SIZE
H SIZE     00
H SHIFT    00
V SIZE     00
V SHIFT    00
ZOOM      +00
ASPECT    4:3
■●SELECT■■   CANCEL■■
```

3 Press ↑↓ to move the cursor (▶) to "H SIZE" and press ENT.
The following menu appears on the monitor screen.

```
H SIZE : 00
```

4 Press ↑↓ to resize the picture.
↑: to expand horizontal size
↓: to reduce horizontal size
The horizontal picture size is indicated on the monitor screen in the range from MIN(-50) to MAX(+50). The factory value is 00.

5 Press ENT.
The menu returns to the PIC SIZE menu.

6 Press ↑↓ to move the cursor (▶) to "V SIZE" and press ENT.
The following menu appears on the monitor screen.

```
V SIZE : 00
```

7 Press ↑↓ to resize the picture.
↑: to expand vertical size
↓: to reduce vertical size
The vertical picture size is indicated on the monitor screen from MIN(-50) to MAX(+50). The factory value is 00.

8 Press ENT.
The menu returns to the PIC SIZE menu.

Adjusting the Picture Position

1 In the PIC SIZE menu, press ↑↓ to move the cursor (▶) to "H SHIFT" and press ENT.
The following menu appears on the monitor screen.

```
H SHIFT : 00
```

2 Press ↑↓ to shift the picture.
↑: to shift the picture to the right
↓: to shift the picture to the left
The horizontal picture position is indicated on the monitor screen from MIN(-50) to MAX(+50). The factory value is 00.

3 Press ENT.
The menu returns to the PIC SIZE menu.

(Continued)

Zooming, Resizing, and Positioning the Picture

4 Press ↑↓ to move the cursor (▶) to "V SHIFT" and press ENT.

The following menu appears on the monitor screen.

```
V SHIFT         [          ] 0 0
```

5 Press ↑↓ to shift the picture.

↑ to shift the picture upward
↓ to shift the picture downward

The vertical picture position is indicated on the monitor screen (from MIN(-50) to MAX(+50)). The factory value is 00.

6 Press ENT.

The menu returns to the PIC SIZE menu.

Zooming Up the Picture

You can also operate with the ZOOM button on the Remote Commander.

1 In the PIC SIZE menu, press ↑↓ to move the cursor (▶) to "ZOOM" and press ENT.

The following menu appears on the monitor screen.

```
ZOOM            [          ] x 1
```

2 Press ↑↓ to set zoom.

Each time you press ↑, the picture is magnified by two, three, and four times respectively.
To zoom down, press ↓.

3 Press ENT.

The menu returns to the PIC SIZE menu.

Resizing the Original Picture Size and Position

1 In the PIC SIZE menu, press ↑↓ to move the cursor (▶) to "RESET" and press ENT.

The following menu appears on the monitor screen.

```
RESET :    NO

SELECT     CANCEL
```

2 Press ↑↓.

"NO" changes to "YES".

```
RESET :    YES

SELECT     CANCEL
```

3 Press ENT.

The original picture size and position are restored.

To cancel the reset function, press the MENU button before pressing the ENT button.

Using the Memory

You can save the current picture condition by each input signal using MEMORY function.
The stored condition can be restored whenever necessary.
The items in PIC CONTROL, PIC SIZE and CONFIG (only for V ENHANCE and H FILTER) menus can be memorized.
You can save the picture condition of up to five input signals.

Storing the Current Condition

1 Press MENU.

The main menu appears on the monitor screen.

```
MAIN MENU
▶PIC CONTROL
 PIC SIZE
 MEMORY
 CONFIG

SELECT     CANCEL
```

2 Press ↑↓ to move the cursor (▶) to "MEMORY" and press ENT.

The MEMORY menu appears on the monitor screen.

```
MEMORY
▶LOAD
 SAVE

SELECT     CANCEL
```

3 Press ↑↓ to move the cursor (▶) to "SAVE" and press ENT.

The following menu appears on the monitor screen.

```
SAVE
▶MEM 1:EMPTY
 MEM 2:EMPTY
 MEM 3:EMPTY
 MEM 4:EMPTY
 MEM 5:EMPTY

SELECT     CANCEL
```

4 Press ↑↓ to move the cursor (▶) to MEM 1 to 5 and press ENT.

"COMPLETED" message appears for about five seconds.
The current data is stored under the selected memory number.
If any data has been stored in the selected memory number, the signal type and the color system or horizontal frequency/vertical frequency are now displayed on the right column next to the selected memory number.

```
                Signal type
                      Color system or horizontal/vertical frequency

SAVE
▶MEM 1:RGB    H : XX.XKHz
 MEM 2:EMPTY
 MEM 3:EMPTY
 MEM 4:EMPTY
 MEM 5:EMPTY

SELECT     CANCEL
```

Calling Up the Stored Condition

1 In the MEMORY menu, press ↑↓ to move the cursor (▶) to "LOAD" and press ENT.

The following menu appears on the monitor screen.

```
LOAD
▶MEM 1:RGB    H : XX.XKHz
 MEM 2:EMPTY
 MEM 3:EMPTY
 MEM 4:EMPTY
 MEM 5:EMPTY

SELECT     CANCEL
```

2 Press ↑↓ to move the cursor (▶) to MEM 1 to 5 and press ENT.

"COMPLETED" message appears for about five seconds.
The picture is adjusted to the selected condition.

Using the Memory

• You cannot recall the memory data if the selected signal is different from the preset signal.
• The following items can be memorized:

PIC CONTROL menu
- CONTRAST
- BRIGHTNESS
- CHROMA
- PHASE
- COLOR TEMP
- PICTURE ACC

PIC SIZE menu
- H SIZE
- H SHIFT
- V SHIFT
- V SIZE
- ZOOM
- ASPECT

CONFIG menu
- NR/ENHANCE
- H FILTER

Turning Off the Power Automatically When There Is No Input Signal (Power Saving Function)

This unit automatically turns off the power after certain period if there is no input signal from the RGB1 or RGB2 connectors. (Power saving function)
The following items can be memorized:

1 Press MENU.
The main menu appears on the monitor screen.

```
    MAIN  MENU
 ▶PIC CONTROL
  PIC SIZE
  CONFIG
  REMOTE
  STATUS

[SEL][SELECT][ENT]    CANCEL[ ]
```

2 Press ↑↓ to move the cursor (▶) to "CONFIG" and press ENT.
The CONFIG menu appears on the monitor screen.

```
  CONFIG
 ▶NR/ENHANCE    ON
  H FILTER     AUTO
  B LEVEL      LINE
  POWER SAVE
  LANGUAGE

[SEL][SELECT][ENT]    CANCEL[ ]
```

3 Press ↑↓ to move the cursor (▶) to "POWER SAVE" and press ENT.
The following menu appears on the monitor screen.

```
  POWER SAVE      :    5m

[SEL][SELECT][ENT]    CANCEL[ ]
```

4 Press ↑↓ to select the period to turn into the power saving mode.
OFF: The power saving function does not work.
5 m: Turn into the power saving mode after five minutes if there is no input signal.
10 m: Turn into the power saving mode after 10 minutes if there is no input signal.

The power indicator flashes when the unit is in the power saving mode.

To cancel the power saving function
• Input the sync signal again.
• Press the ⏻ switch on the control panel or the POWER switch on the Remote Commander.

Signal specification for using the power saving function
RGB1: When the sync signal is connected to the HD/COMP IN connector.
RGB2: When the sync signal is connected to the COMP IN connector.

• The power saving function does not work when the signal is input from the LINE connectors.
• If the sync signal is not connected to the HD/COMP IN connector, the unit does not turn on even if the sync signal is input. Be sure to set POWER SAVE to OFF when only the RGB signal or component signal is connected.
• If the sync signal is not connected to the 13th pin of the RGB IN (D-sub 15-pin) connector, the unit does not turn on even if the sync signal is input. Be sure to set POWER SAVE to OFF when only the RGB signal is connected.

Selecting the On-screen Language

You can select the on-screen language among five languages.
Available languages are: English, German, French, Italian and Spanish.

1 Press MENU.
The main menu appears on the monitor screen.

2 Press ♦♦ to move the cursor (▶) to "CONFIG" and press ENT.
The CONFIG menu appears on the monitor screen.

3 Press ♦♦ to move the cursor (▶) to "LANGUAGE" and press ENT.
The following menu appears on the monitor screen.

4 Press ♦♦ to move the cursor (▶) to desired language and press ENT.
The on-screen language is switched to the one you selected.
ENGLISH: English
DEUTSCH: German
FRANÇAIS: French
ITALIANO: Italian
ESPAÑOL: Spanish

5 Press MENU.
The menu returns to the CONFIG menu.

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Self-diagnosis Function

This unit has a self-diagnosis function.
This function displays the monitor's condition with the ○ indicator flashing and numbers on the SERVICE CODE indicator. The numbers inform you of the monitor's current condition.
When the unit is working properly, only the dot at the lower-right position on the SERVICE CODE indicator flashes.
If the ○ indicator flashes, check the number and contact your authorized Sony dealer.

1 Check the two-digit number on the SERVICE CODE indicator.
The indicator shows one number, or multiple numbers alternately every a half second.

2 Unplug the unit.
Inform the number to your authorized Sony dealer.

Operating a Specific Monitor With the Remote Commander

Using the supplied Remote Commander, you can operate a monitor's condition without affecting other monitors that are installed together.

1 Press ID MODE ON on the Remote Commander.
Monitor index numbers appear in white characters on all the monitors. (Every monitor is allocated an individual preset index number from 1 to 255.)
See "To change the index number" in the column to the right on this page to change the index number.

2 Input the index number of the monitor you want to operate using 0 – 9 buttons on the Remote Commander.
The input number appears right next to each monitor's own index number.

3 Press ID MODE SET.
The characters on the selected monitor changes to cyan while others change to red.

You can operate only a specified monitor. (All operations are available in ID mode except POWER ON/OFF.)

4 After necessary adjustment, press ID MODE OFF.
The monitor returns to the normal mode.

To change the index number

You can change the index number if necessary.
When you change the number, use the buttons on the monitor.

1 Press MENU.
The main menu appears on the monitor screen.

2 Press ♦♦ to move the cursor (▶) to "REMOTE" and press ENT.
The REMOTE menu appears on the monitor screen.

3 Press ♦♦ to move the cursor (▶) to "INDEX NO." and press ENT.
The following menu appears on the monitor screen.

4 Select the index number with ♦♦ and press ENT.
The menu returns to the REMOTE menu.

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Using the Other Remote Commander

The following operations can be controlled.
• Power on/off
• Input selection
• Menu operations
• Picture adjustment: contrast, phase and chroma
• On-screen display on/off (only for video monitors and TVs)

The available operations and the buttons to be used for each operation are limited depending on each Remote Commander. See the table below.

Remote Commander model	RM-864	RM-PJ231	RM-PJ232C	RM-AV1000
Switch input/power				
Input selection	RGB1	A	A	A
	RGB 2	—	B	B
	LINE1	VIDEO	VIDEO	VIDEO
Menu operation	MENU	MENU	PAGE or ←	MENU or ←
	ENTER	ENTER	↑	ENTER or ↓
	+	↑	↓	↑
	–	↓	←	↓
Picture adjustment	Contrast	CONTRAST +/–	CONTRAST +/–	CONTR+/–
	Chroma	CHROMA+/–	COLOR+/–	COLOR+/–
	Phase	PHASE+/–	HUE+/–	HUE+/–
On-screen information		DISPLAY	STATUS ON	STATUS ON

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Specifications

Video processing

Capture range	Horizontal rate: 15.6 to 80 kHz Vertical rate: 48 to 120 Hz
Preset signal	Input: 12 formats (See page 22(EN))
Video memory	1,153 × 1,153 × 24 bits (RGB total)
Sampling size	12.5 to 40 MHz max. (equivalent to 80 MHz sampling)
Panel system	AC-type Plasma Display Panel
Display resolution	852 dots × 480 lines
Pixel pitch	1.08(horizontal) × 1.08(vertical) mm (¹⁄₁₆ × ¹⁄₁₆ inches)
Picture size	920 (horizontal) × 518 (vertical) mm (36 ⅜ × 20 ½ inches)
Panel size	42-inch diagonal (1,056 mm)

Inputs and Outputs

RGB1

R (R-Y)/G (Y)/B (B-Y) IN	BNC-type (×3) H (or composite) SYNC, V SYNC, 0.714 Vp-p/no-composite 75-ohm (automatic termination) 1 to 5 Vp-p high impedance
AUDIO IN (L, R)	Phono jack (×2) 500 mVrms, high impedance
SYNC IN(HD/COMP, VD)	BNC-type (×2) H (or composite) SYNC, V SYNC
R (R-Y)/G (Y) OUT	BNC-type (×3) Loop-through
SYNC OUT (HD/COMP, VD)	BNC-type (×2) Loop-through H (or composite) SYNC, V SYNC
AUDIO OUT (L, R)	Phono jack (×2) Loop-through

RGB2

RGB IN	D-sub 15 pin See "Pin assignment" on page 84(EN)
AUDIO IN (L, R)	Phono jack (×2) 500 mVrms, high impedance

LINE (NTSC, PAL)

VIDEO IN	BNC-type (×1) Composite video, 1 Vp-p ±2 dB sync. negative, 75-ohm (automatic termination)
Y/C IN	Mini DIN 4-pin type (×1) Y (luminance): 1 Vp-p ±2 dB sync negative, 75-ohm (automatic termination) C (chrominance): burst 0.286 Vp-p ±2 dB (NTSC, 75-ohm (automatic termination) Burst 0.3 Vp-p ±2 dB (PAL), 75-ohm (automatic termination)
AUDIO IN (L, R)	Phono jack (×2) 500 mVrms, high impedance
VIDEO OUT	BNC-type (×1) Loop-through
Y/C OUT	Mini DIN 4-pin type (×1) Loop-through
AUDIO OUT (L, R)	Phono jack (×2) Loop-through
MONITOR OUT AUDIO (L, R)	Phono jack (×2) (Variable output) through
CONTROL S (IN, OUT)	Mini jack (stereo) (×2) 5 Vp-p
SPEAKERS	6 to 16 ohms, 7 W + 7 W (when the impedance is 8 ohms) Phone jack (×2) Maximum 500 mVrms, high impedance.

General

Power requirements	100 to 120 V AC, 50/60 Hz, 3.9 A/380 W 220 to 240 V AC, 50/60 Hz, 2.0 A/360 W
Operating conditions	Temperature: 0°C to 35°C (32°F to 95°F) Humidity: 20% to 90% (no condensation) Atmospheric pressure: 700 to 1060 hPa

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Mounting Bracket

Installation Manual for Dealers

MB-514

PFM-500A1WU/PFM-500A1WE

Table of contents

WARNING

Install the monitor on a wall that can hold a weight of at least 40Kg (88.1lb14 oz). Reinforce the wall, if needed.

English

The mounting bracket MB-514 is designed to install the Sony flat panel monitor PFM-500A1WU/500A1WE on a wall.

Installation

2

1

English

1 Decide where on the wall you want to install the wall bracket (a).
The center hole of the wall bracket will be matched the center of the mounting panel.

2 Install the wall bracket (a) on the wall.
Use six M8 bolts or concrete anchors, six nuts and six washers (not supplied).

Parts List

(a)	Wall bracket (1)
(b)	Mounting bracket (1)
(c)	Handle (1)
(d)	Knob (2)
(e)	Screw M8 (8)

PFM-500A1WU/PFM-500A1WE

English

3 Pull down the retractable foot and stand the monitor up.
For details on using the retractable foot, see the Operating Instructions for the Sony flat panel monitor PFM-500A1WU/500A1WE.

If the retractable foot and one foot support brackets are already installed on the monitor, go to Step 4. Otherwise, go to Step 5.

4 Remove the foot support brackets from the retractable foot.
For details on removing the foot support brackets, see the Operating Instructions for the Sony flat panel monitor PFM-500A1WU/500A1WE.

English

5 Install the mounting bracket (b) on the flat monitor.
Match the mounting bracket screw holes to the monitor screw holes, then insert and tighten eight M5 screws (a) to lock the bracket onto the monitor.

6 Attach the handle (a) on the mounting bracket (b) with the supplied screw (provided with the handle).

7

Store the retractable feet.

For details on using the retractable feet, see the Operating Instructions for the Sony flat panel monitor PFM-500A1WU/500A1WE.

8

Install the flat monitor with mounting bracket (b) on the wall bracket (a).

Hook two mounting bracket shafts (d), (e) on the wall bracket grooves.

Note

Make sure that the shafts hook properly into the grooves.

9

Lock the mounting bracket shafts (hooked in Step 8) by turning two knobs (d) so that the shafts do not move vertically.

Pull the handle (c) out (installed in Step 6) and unsnap the lock. Pull down the monitor panel so the mounting bracket sufit is fully extended. Turn two knobs (d) and lock the monitor panel.

10

Adjust the monitor panel angle.

You can change the angle from 0° to 20° (7 levels) (Approx. 0°, 4°, 8°, 12°, 15°, 18° and 20°).
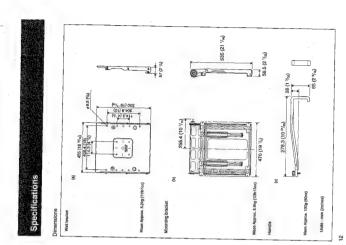
(1) Pull the handle (c) above to unsnap the lock.
(2) Push the panel to the desired angle.
(3) Let go of the handle and adjust the panel angle so it can be locked.

See the angle marks.

Dimensions

(a)

∅9.5 (⅜)

500 (19 ¹¹/₁₆)
304.8 (12)
11.3 (⁷/₁₆)
14.3 (⁹/₁₆)

455 (18 ¹⁸/₃₂)
406.4 (16)
11.3 (⁷/₁₆)

57 (2 ¼)

Wall bracket

Mass Approx. 5.2kg (11lb7oz)

(b)

535 (21 ⅛)

56.5 (2 ¹/₃₂)

255.4 (10 ¹/₁₆)
470 (18 ½)

Mounting bracket

Mass Approx. 5.6kg (12lb13oz)

(c)

65 (2 ⁹/₁₆)
28 (1 ⁹/₁₆)

278.3 (10 ⁵¹/₆₄)

Handle

Mass Approx. 190g (60oz)

Units : mm (inches)

12

11

(c)
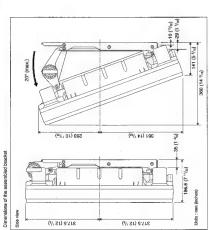
11 Loosen the screw and remove the handle.

Store the handle with the Operating Instructions.

English

11

Dimensions of the assembled bracket

Side view

20° (max.)

10 (²⁵/₆₄)
29 (1 ⁵/₃₂)
141 (5 ⁹/₁₆)
360 (14 ³/₈)
283 (10 ¹¹/₃₂)
361 (14 ⁷/₃₂)
35 (1 ³/₈)
186.6 (7 ¹³/₃₂)
317.5 (12 ½)
317.5 (12 ½)

Units : mm (inches)
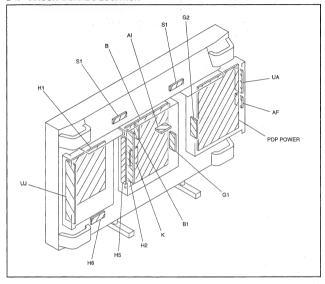
Design and specifications are subject to change without notice.

SECTION 2
SERVICE INFORMATION

2-1. CIRCUIT BOARDS LOCATION
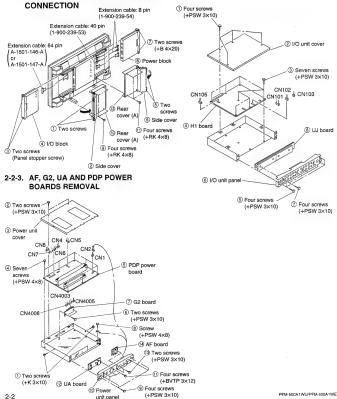
2-2. DISASSEMBLY

NOTE: When removing the power block from the
main unit, start performing more than 30
seconds after the main power is turned off.
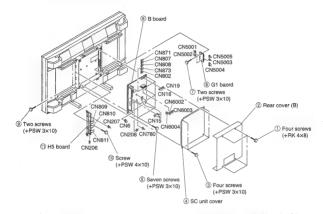
2-2-1. I/O AND POWER BLOCKS REMOVAL AND EXTENSION CABLE CONNECTION

Extension cable: 8 pin
(1-900-239-54)

Extension cable: 40 pin
(1-900-239-53)

Extension cable: 64 pin
A-1501-146-A
or
A-1501-147-A

⑦ Two screws
(+B 4×20)

⑥ Power block

⑤ Two screws

⑥ Side cover

⑫ Rear cover (A)

⑪ Rear cover (A)

① Two screws

⑦ I/O block

③ Two screws
(Panel stopper screw)

④ Four screws
(+RK 4×8)

⑨ Four screws
(+RK 4×8)

② Side cover

2-2-3. AF, G2, UA AND PDP POWER BOARDS REMOVAL

② Two screws
(+PSW 3×10)

③ Power unit cover

CN8   CN4   CN5
CN7   CN6   CN2
CN1

④ Seven screws
(+PSW 4×8)

⑤ PDP power board

CN4003
CN4005
CN4008

⑦ G2 board

⑥ Two screws
(+PSW 3×10)

⑧ Screw
(+PSW 4×8)

⑭ AF board

⑬ Two screws
(+PSW 3×10)

① Two screws
(+K 3×10)

⑫ UA board

⑪ Four screws
(+BVTP 3×12)

⑩ Power unit panel

⑨ Four screws
(+PSW 3×10)

2-2-2. H1 AND UJ BOARDS REMOVAL

① Four screws
(+PSW 3×10)

② I/O unit cover

③ Seven screws
(+PSW 3×10)

CN102
CN105   CN101   CN103

④ H1 board

⑧ UJ board

⑥ I/O unit panel

⑤ Four screws
(+PSW 3×10)

⑦ Four screws
(+PSW 3×10)

2-2-4. G1, H5 AND B BOARDS REMOVAL

⑥ B board

CN5001
CN5002
CN5005
CN5003
CN5004

CN871
CN807
CN808
CN873
CN802

⑧ G1 baord

⑦ Two screws
(+PSW 3×10)

CN19
CN18
CN6002
CN6003
CN6004
CN15
CN6
CN780

② Rear cover (B)

① Four screws
(+RK 4×8)

CN809
CN810
CN207
CN208
CN811
CN206

⑨ Two screws
(+PSW 3×10)

⑪ H5 board

⑩ Screw
(+PSW 4×10)

⑤ Seven screws
(+PSW 3×10)

③ Four screws
(+PSW 3×10)

④ SC unit cover

2-2-5. K BOARD REMOVAL

⑥ K board

⑤ Screw
(+PSW 4×10)

CN23
CN24

④ SC block

CN18

68 pin

CN6003

9 pin

4 pin CN807
CN808
CN873
CN802
CN809
CN6002

③ Six screws
(+PSW 4×10)

② SC unit
cover

① Four screws
(+PSW 3×10)

2-2-6. BEZEL ASSY AND H6 BOARD REMOVAL

⑤ Bezel assy

③ Key board unit

④ Ten screws
(+PSW 4×10)

⑧ Three screws
(+PSW 3×10)

⑦ Filter bracket (H)

⑥ Two screws
(+PSW 4×10)

⑩ Two claws

② Hand hole
cover

① Screw
(+PSW
4×10)

CN703
CN702
CN710
CN709
CN708

CN701

③ Three connectors

⑪ H6 board
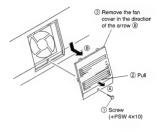
2-2-7. PLASMA DISPLAY PANEL AND S1 BOARD REMOVAL

- Remove the three connectors .
  (CN23, 24, 68 pin)
  [Refer to 2-2-5. K BOARD REMOVAL]

③ Two claws

④ S1 board

CN23
CN24
CN1202
CN1201

68 pin

② Plasma display panel

① Eight screws
(+PSW 5x40)

2-2-8. FAN COVER REMOVAL

③ Remove the fan cover in the direction of the arrow Ⓑ

Ⓑ

② Pull

Ⓐ

① Screw
(+PSW 4x10)

SECTION 3
ELECTRIC ADJUSTMENT IN THE SERVICE MODE

3-1. Electric Adjustment in the Service mode

Electric adjustment can be performed with the Remote
Commander RM-921 attached to the set.
Adjustable items in the SERVICE mode is as follows.

MEMORY RESET .... Resets the EEPROM.
PIC CONTROL .... Adjusts the level of analog signal
                           circuits.
W/B ADJUST .... Adjusts the gain of A/D converter
                           and digital gamma circuit, and
                           adjusts the sub bright.
PIC SIZE .... Adjusts picture size.
CONFIG .... Sets special functions.
STATUS .... Checks internal status.
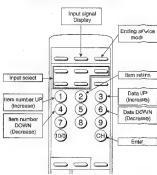
To enter the SERVICE mode, with the set in standby status,
press $\boxed{D I S P L A Y} \rightarrow \boxed{5} \rightarrow \boxed{VOL +} \rightarrow \boxed{POWER}$ in
this order.

• Remote Commander functions in SERVICE mode

Input signal Display

Ending service mode

Input select

Item return

Item number UP (Increase)

Data UP (Increase)

Item number DOWN (Decrease)

Data DOWN (Decrease)

Enter

• Adjustment required in SERVICE MAN mode

Adjustment in the SERVICE MAN mode is required if either of the following repairs was made.

If repair relevant to picture quality was made	If a board was replaced		
PDP replacement	B1 board replacement UJ board replacement H1 board replacement H2 board replacement	A1 board replacement S1 board replacement	B board replacement
PIC CONTROL W/B ADJUST	PIC CONTROL W/B ADJUST	STATUS (Operation check only)	MEMORY RESET PIC CONTROL W/B ADJUST
Replacement of B board memory (IC254,IC255)			
MEMORY RESET PIC CONTROL W/B ADJUST			

SERVICE MENU

MEMORY RESET

USER DATA — CANCEL ↔ EXECUTE — Reset all the data adjusted by user to Initial setting.
Refer to 1.

ALL EEPROM — CANCEL ↔ EXECUTE — Reset all the contents of EEPROM to standard values.
Refer to 2.

PIC CONTROL

SUB CONTRAST
SUB CHROMA
SUB PHASE
COMB-F Y
COMPONENT BY
COMPONENT Y
COMPONENT RY

Adjust the level of analog circuits.
For an adjusting method, see 3-2.
For these 7 items, 8 kinds of independent adjustments by input system are made as listed in Table 3-3.

W/B ADJUST

RED D.GAIN
GREEN D.GAIN
RGB A.GAIN
RED A.GAIN
GREEN A.GAIN
SUB BRIGHT

Adjust white balance using A/D converter and digital gamma circuit. For an adjusting method, see 3-2. For 3 A.GAIN items, 8 kinds of independent adjustments by input system, and for D.GAIN and SUB BRIGHT, only one kind of adjustment are made as listed in Table 3-3.

PIC SIZE

H SIZE
H SHIFT
V SIZE
V SHIFT
ASPECT

For these items, 12 kinds of independent adjustments by input signal are made as listed in Table 3-1.
Normally, adjustment is not necessary. Refer to 3.

CONFIG

COLOR TEMP
V ENHANCE
H FILTER
V SYNCRO
RGB2 TYPE
LUMINANCE

Set the switches and special functions.
Refer to 4.

STATUS

PANEL TEMP1
PANEL TEMP2
DC 180 V
DC 70 V
P/S TEMP
FAN STATUS

Internal status of the set can be confirmed.
Refer to 5.

1. USER DATA RESET (MEMORY RESET)

Items reset to initial setting, when executed.

CONTRAST 80
BRIGHTNESS 00
CHROMA 00
PHASE 00
COLOR TEMP .... HIGH
PICTURE AGC .... ON
H SIZE 00
H SHIFT 00
V SIZE 00
V SHIFT 00
ZOOM .... × 1
ASPECT .... 4 × 3 (16 × 9 for HDTV)
V ENHANCE .... ON
H FILTER .... AUTO
DISPLAY .... ON
POWER SAVE .... OFF
LANGUAGE .... ENGLISH
REMOTE MODE .... TV
REMOTE ONLY .... OFF

And, five kinds of user data of the MEMORY menu are all become empty.

2. ALL EEPROM RESET (MEMORY RESET)

All areas in EEPROM are reset to standard values saved in the system controller. Use this command when EEPROM was replaced.

Be careful when executing this command, because all data including service video data and service size data are rewritten.

3. PIC SIZE

.... Read also "Precautions on Adjustment"

Use this command when the picture size is to be adjusted.

This adjustment determines standard value in executing the reset of the user menu.

Even if the data are erased due to EEPROM replacement, execu-tion of b) ALL EEPROM RESET allows 12 kinds of preset data saved in the system controller to be all copied, and therefore normally the adjustment is not necessary.

4. CONFIG

• COLOR TEMP/V ENHANCE/H FILTER

.... Read also "Precautions on Adjustment"

This adjustment determines standard value in executing the reset of the user menu.

Use this command when individual items are to be re-set.

Even if the data are erased due to EEPROM replacement, execu-tion of b) ALL EEPROM RESET allows 12 kinds of preset data saved in the system controller to be all copied, and therefore normally the re-setting is not necessary.

• V SYNCRO

This model provides the field interpolating function for optimum movie processing at the video input (NTSC, PAL, HDTV). When turning off the V SYNCRO, the image processing is switched from field interpolation mode to VGA conversion mode. Normally, turn ON the V SYNCRO.

• RGB2 TYPE

Change setting from RGB to YUV, if mounting optional SDI.

Setting the RGB2 TYPE to "YUV" enables the input of YUV signals. In this case, input display of OSD is SDI.

Normally, select RGB.

• LUMINANCE

The use of optical sensor (S1 board) set on the back side of PDP can measure the age-based change of panel luminance. The initial value of luminance is set at the factory shipment.

If the LUMINANCE is changed from CANCEL to EXECUTE, and executed, the set automatically restarts the power and measures the luminance. The measurement completes in about 25 seconds and displays in % the luminance change to the initial value.

A measurement error of ± 3% may be generated depending on the measurement condition (temporary characteristic change of fluorescent material).

During measurement, cover the front side of set with a blackout cloth to shield external light. A bright measurement place will cause a measurement error.

Precautions on Adjustment

Preset data by input signal

        COLOR TEMP

        H SIZE

        H SHIFT

        V SIZE

        V SHIFT

        ASPECT

        V ENHANCE

        H FILTER

are related to the preset 12 kinds of signal timing (Table 3-1), and accordingly if no signal or unspecified signal is entered, "NOT ADJUSTABLE" is displayed at the top of screen, and at the same time, above 8 items are displayed in blue. At this time, each data is the center value.

If either item is adjusted with unspecified signal input, the input signal timing is written to the MODE12 (ATI 1280*1024) area in Table 3-2.

Normally, do not make adjustment under "NOT ADJUSTABLE" condition.

The unspecified signal timing written to the MODE12 is reset to the initial setting by executing ALL EEPROM RESET.

5. STATUS

- **PANEL TEMP1**

  The temperature data from thermal sensor mounted on the S1 board on the power supply block side (panel back side at top of set) is displayed in [°C]. Whether this temperature is faulty or not is given in "4-3. Trouble Codes List".

- **PANEL TEMP2**

  The temperature data from thermal sensor mounted on the S1 board on the signal input terminal board block side (panel back side at top of set) is displayed in [°C]. Whether this temperature is faulty or not is given in "4-3.Trouble Codes List".

- **DC 180V**

  180V DC voltage supplied to the PDP is displayed in [V]. Whether this voltage is faulty or not is given in "4-3. Trouble Codes List".

- **DC 70V**

  70V DC voltage supplied to the PDP is displayed in [V]. Whether this voltage is faulty or not is given in "4-3. Trouble Codes List".

- **P/S TEMP**

  Criterion data from thermal sensor built in the power supply block is displayed. If normal, "OK" is displayed.

  "NG" is displayed if a temperature rise of power supply block exceeds allowable value.
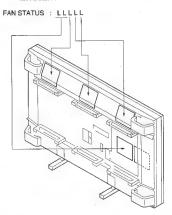
  For the trouble of this temperature, see "4-3. Trouble Codes List".

- **FAN STATUS**

  Operating statuses of five cooling fans built in the set are displayed individually.

  "L" is displayed if normal, or "H" if abnormal.

  The relation between fan position and display is as shown below.

FAN STATUS : L L L L L

For the trouble of these fans, see "4-3. Trouble Codes List".

Table 3-1 Factory Preset Data

MODE	NAME	CLOCK (MHz)	H.FREQ (KHz)	V.FREQ (Hz)	EXT (H/V)	COMP VIDEO	COLOR TEMP	ASPECT	V ENHANCE	H FILTER
1	NTSC	14.318	15.734	59.94		YES	HIGH	4 × 3	ON	AUTO
2	PAL	17.75	15.625	50		YES	HIGH	4 × 3	ON	AUTO
3	HDTV	37.125	33.75	59.94			HIGH	16 × 9	ON	AUTO
4	VGA	25.175	31.469	59.94	(-/-)		HIGH	4 × 3	ON	AUTO
5	VGA (TEXT)	28.332	31.469	70.111	(-/+)		HIGH	4 × 3	ON	AUTO
6	MAC13"	30.24	35	66.667	(-/-)		HIGH	4 × 3	ON	AUTO
7	MAC16"	57.285	49.727	74.553	(-/-)		HIGH	4 × 3	ON	AUTO
8	VESA800*600	40	37.879	60.317	(+/+)		HIGH	4 × 3	ON	AUTO
9	VESA1024*768	65	48.363	60.004	(-/-)		HIGH	4 × 3	ON	AUTO
10	ATI1280*1024	110	63.953	59.94	(-/-)		HIGH	4 × 3	ON	AUTO
11	MAC21"	100	68.681	75.061	(-/-)		HIGH	4 × 3	ON	AUTO
12	ATI1280*1024	135	79.976	75.025	(+/+)		HIGH	4 × 3	ON	AUTO
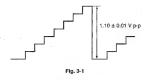
Table 3-2 Preset timing

MODE	1		2		3		4		5		6		7		8		9		10		11		12	
NAME	NTSC		PAL		HDTV		VGA		VGA (TEXT)		MAC13"		MAC16"		VESA800x600		VESA1024x768		ATI1280x1024		MAC21"		ATI1280x1024	
RESOLUTION	753x483		923x573		960x1034		640x480		720x400		840x480		832x624		800x600		1024x768		1280x1024		1152x870		1280x1024	
CLOCK (MHz)	14.318		17.75		37.125		25.175		28.332		30.24		57.285		40		65		110		100		135	
HORIZONTAL																								
H. FREQ (kHz)	15.734		15.625		33.75		31.469		31.469		35		49.727		37.879		48.363		63.953		68.681		79.976	
	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots	μsec	dots
H. TOTAL	63.556	910	64	1136	29.63	1100	31.778	800	31.766	900	28.571	864	20.11	1152	26.4	1056	20.667	1344	15.64	1720	14.56	1456	12.504	1688
H. BLK	10.9	156	12	213	3.771	140	6.356	160	6.383	180	7.407	224	5.596	320	6.4	256	4.923	320	4	440	3.04	304	3.022	408
H. FP	1.5	22	1.5	26	0.593	22	0.636	16	0.635	18	2.116	64	0.559	32	1	40	0.369	24	0.727	80	0.32	32	0.119	16
H. SYNC	4.7	67	4.7	84	0.593	22	3.813	96	3.812	108	2.116	64	1.117	64	3.2	128	2.092	136	1.018	112	1.28	128	1.067	144
H. BP	4.7	67	5.8	103	2.586	96	1.907	48	1.906	54	3.175	96	3.91	224	2.2	88	2.462	160	2.255	248	1.44	144	1.837	248
H. ACTIVE	52.656	754	52	923	25.859	960	25.422	640	25.413	720	21.164	640	14.524	832	20	800	15.754	1024	11.64	1280	11.52	1152	9.418	1280
VERTICAL																								
V. FREQ (Hz)	59.94		50		59.94		59.94		70.111		66.867		74.553		60.317		60.004		59.94		75.061		75.025	
	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines	msec	lines
V. TOTAL	16.683	262.5	20	312.5	16.667	562.5	16.683	525	14.263	449	15	525	13.413	667	16.579	628	16.686	806	16.688	1067	13.323	915	13.329	1066
V. BLK	1.303	20.5	1.632	25.5	1.348	45.5	1.43	45	1.557	49	1.286	45	0.865	43	0.739	28	0.796	38	0.673	43	0.655	45	0.525	42
V. FP	0.254	4	0.192	3	0.178	6	0.318	10	0.381	12	0.086	3	0.06	3	0.026	1	0.062	3	0.016	1	0.044	3	0.013	1
V. SYNC	0.191	3	0.16	2.5	0.148	5	0.064	2	0.064	2	0.086	3	0.06	3	0.106	4	0.124	6	0.078	5	0.044	3	0.038	3
V. BP	0.858	13.5	1.28	20	1.022	34.5	1.049	33	1.112	35	1.114	39	0.744	37	0.607	23	0.6	29	0.579	37	0.568	39	0.475	38
V. ACTIVE	15.381	242	18.368	287	15.319	517	15.253	480	12.706	400	13.714	480	12.549	624	15.84	600	15.88	768	16.015	1024	12.67	870	12.8	1024
SYNC																								
SOG					YES						YES													
EXT (H/V)	YES		YES				(-/-)		(-/+)		(-/-)		(-/-)		(+/+)		(-/-)		(-/-)		(-/-)		(+/+)	
COMP VIDEO	YES		YES																					
VIDEO LEVEL	0.714V		0.700V		0.714V		0.714V		0.714V		0.714V		0.714V		0.714V		0.714V		0.714V		0.714V		0.714V	
SYNC LEVEL	0.286V		0.300V		0.286V		TTL		TTL		0.286V		TTL		TTL		TTL		TTL		TTL		TTL	

3-2. Adjustment of respective signal levels

3-2-1. RGB level adjustment

1. Make preparation for adjustment, input AC, input the gray scale of the VGA graphic (640 × 480) to RGB1, and select RGB1 via a Remote commander.
2. Observe the TP503 (B IN) with an oscilloscope, and adjust the RGB A.GAIN level with a Remote commander so that the signal level will be 1.10 V ± 0.01 V p-p. (Fig. 3-1)
3. Observe the TP501 (R IN) with an oscilloscope, and adjust the RED A.GAIN level with a Remote commander so that the signal level will be 1.10 V ± 0.01 V p-p. (Fig. 3-1)
4. Observe the TP502 (G IN) with an oscilloscope, and adjust the GREEN A.GAIN level with a Remote commander so that the signal level will be 1.10 V ± 0.01 V p-p. (Fig. 3-1)
5. Input the gray scale of the HIGH VISION (YPbPr) to the RGB1, and select the YUV mode with a Remote commander.
6. Observe the TP503 (B IN) with an oscilloscope, and adjust the RGB A.GAIN level with a Remote commander so that the signal level will be 1.10 V ± 0.01 V p-p. (Fig. 3-1)

Fig. 3-1
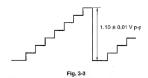
3-2-2. YUV level adjustment

1. Input the YUV signal to the RGB1 Input terminal. The signal should be gray scale (NTSC).
2. Select the YUV mode via a Remote commander to enter the adjustment mode.

3. Observe the TP306 (G OUT) with an oscilloscope and adjust the COMPONENT Y level so that the signal level will be 0.70 V ± 0.01 V p-p. (Fig. 3-2)

Fig. 3-2

4. Observe the TP503 (B IN) with an oscilloscope, and adjust the RGB A.GAIN level so that the signal level will be 1.10 V ± 0.01 V p-p. (Fig. 3-3)

Fig. 3-3

5. Change the signal of 75 % color bar.
6. Adjust the COMPONENT B-Y so that the TP305 (B OUT) level and the B level will be the same. (Fig. 3-4)

Fig. 3-4
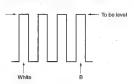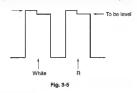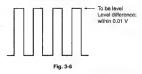
7. Adjust the COMPONENT R-Y so that the TP307 (R OUT) level and the R level will be the same. (Fig. 3-5)

Fig. 3-5

8. Ensure tracking between 6 and 7.
9. Adjust the SUB PHASE so that all the signal levels of the TP305 (B OUT) will be the same. (Fig. 3-6)
   Standard level difference: Within 0.01 V

Fig. 3-6
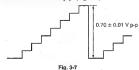
10. The levels are not the same, ensure tracking among 6, 7 and 9.
11. Change the signal to the YUV of the PAL, and make the same adjustment as the NTSC.

Note: In the case of PAL, adjustment will be almost satisfactory when NTSC data are copied. So adjust only incorrect points after copying the data.

3-2-3. Y/C level adjustment

1. Input the gray scale of the NTSC to the Y/C input.
2. Select the Y/C with a Remote commander to enter the adjustment mode.
3. Observe the TP306 (G OUT) with an oscilloscope, and adjust the SUB CONTRAST so that the signal level will be 0.70 V ± 0.01 V p-p. (Fig. 3-7)
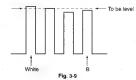
Fig. 3-7

4. Observe the TP503 (B IN) with an oscilloscope, and adjust the RGB A.GAIN level so that the signal level will be 1.10 V ± 0.01 V p-p. (Fig. 3-8)
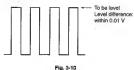
Fig. 3-8

5. Change the signal of 75 % color bar.
6. Adjust the SUB CHROMA so that the TP305 (B OUT) white level and the B level will be the same. (Fig. 3-9)

Fig. 3-9

7. Adjust the SUB PHASE so that all output will be the same. (Fig. 3-10)
   Standard: Within 0.01 V

To be level
Level difference:
within 0.01 V

Fig. 3-10

8. Ensure tracking between 6 and 7.
9. Change the signal to the PAL and make the same adjustment as the case of the NTSC.

Note: In the case of the PAL, copy the NTSC data and then adjust incorrect points.

3-2-4. Adjustment of composite video level

1. Input the gray scale of the NTSC to the line input, and enter the LINE input mode with a Remote commander.
2. Enter the adjustment mode with a Remote commander, and input the RGB A.GAIN level that was adjusted by the YUV of NTSC. Input the SUB CONTRAST value that was adjusted by the Y/C input to the SUB CONTRAST.
3. Observe the TP306 (G OUT) with an oscilloscope, and adjust the COMB-F Y level so that the output level will be 0.70 V ± 0.01 V p-p.
   (Fig. 3-11)

0.70 ± 0.01 V p-p

Fig. 3-11
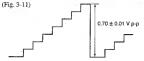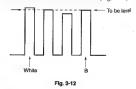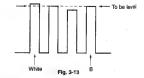
4. Change the signal of 75% color bar, and adjust the SUB CHROMA so that the TP305 (B OUT) white level and the B level will be the same. (Fig. 3-12)

To be level

White   B

Fig. 3-12

5. Adjust the SUB PHASE so that all outputs will be the same. (Fig. 3-13)
   Standard: Within 0.01 V

To be level

White   **Fig. 3-13**   B

6. Ensure tracking between 4 and 5.
9. Change the signal to the PAL and make the same adjustment as the case of the NTSC.

Note: In case of the PAL, adjustment will be almost satisfactory when NTSC data are copied. So adjust only incorrect points after copying the data.

3-2-5. SUB BRIGHTNESS ADJUSTMENT

1. Enter gray scale signal containing 10IRE to the LINE input.
2. Measure DC voltage at TP505 on the B board with a digital voltmeter. (GND: TP113)
3. Measure DC voltmeter at TP506 on the B board with a digital voltmeter, and adjust the SUB.BRIHT level with the remote commander to the measured value at TP505 ± 0.01 V.
4. Make sure that the screen brightens a little at 10IRE and it becomes the same level as blanking level 0IRE.

3-2-6. ADJUSTMENT OF WHITE BALANCE

(1) RGB system adjustment
1. Input the all white signal (80IRE) of the VGA graphic (640 × 480) to the RGB1 Input terminal.
2. Select the RGB1 via Remote commander to enter the adjustment mode.
3. Adjust the RED D.GAIN level and GREEN D.GAIN level so that the white balance level will be standards on 6500K.

(2) High Vision adjustment
1. Input the all white signal (80IRE) of the HIGH VISION to the RGB1 Input terminal.
2. Select the YUV via Remote commander to enter the adjustment mode.
3. Adjust the RED A.GAIN level and GREEN A.GAIN level so that the white balance level will be standards on 6500K.
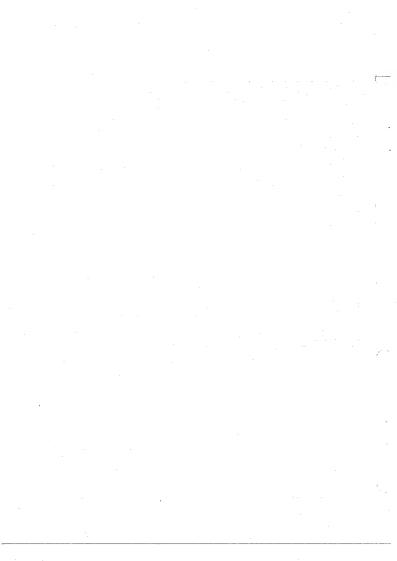
(3) VIDEO system adjustment
1. Input the all white signal (80IRE) of the YUV (NTSC) to the RGB1 Input terminal.
2. Select the YUV via Remote commander to enter the adjustment mode.
3. Adjust the RED A.GAIN level and GREEN A.GAIN level so that the white balance level will be standards on 6500K.
4. Input the RED A.GAIN level and GREEN A.GAIN level that was adjusted by the YUV of NTSC when input to the LINE Input terminal (NTSC and PAL), Y/C Input terminal (NTSC and PAL) and RGB1 Input terminal (PAL).

Table 3-3
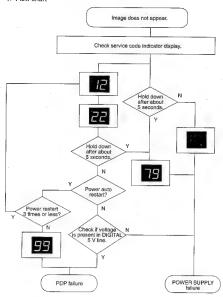
Data requiring overall adjustment		RGB1	YUV HDTV	YUV NTSC	YUV PAL	COMPOSITE NTSC	COMPOSITE PAL	Y/C NTSC	Y/C PAL
D A 1	SUB CONTRAST	×	×	×	×	○	○	○	○
	SUB PHASE	×	×	○	○	○	○	○	○
	SUB CHROMA	×	×	×	×	○	○	○	○
D A 2	RGB A.GAIN Level	○	○	○	○	○	○	○	○
	RED A.GAIN Level	○	○	○	○	○	○	○	○
	GREEN A. GAIN Level	○	○	○	○	○	○	○	○
	COMF Y Level	×	×	×	×	○	○	×	×
	COM Y Level	×	×	○	○	×	×	×	×
	COM R-Y Level	×	×	○	○	×	×	×	×
	COM B-Y Level	×	×	○	○	×	×	×	×
	RED D.GAIN Level	○	×	×	×	×	×	×	×
	GREEN D. GAIN Level	○	×	×	×	×	×	×	×

SECTION 4
TROUBLE SHOOTING

4-1. JUDGING METHOD WHEN PFM-500A1W IMAGE DOES NOT APPEAR

1. Flow chart

2. How to find PDP unit trouble

1) The power must be supplied normally to the PDP unit. This power is supplied through two black 8-pin connectors from the power unit. The kinds of power supply are 180 V line, 70 V line, and 5 V line.

2) As input signals, H.SYNC (negative polarity), V.SYNC (negative polarity), BLANKING (negative polarity),

CLOCK and RGB digital data (8 bit × 3) must be entered normally and DISPEN must be "high".

If no images appears through the above conditions are satisfied, the PDP unit will be defective.

4-2. SELF DIAGNOSTIC FUNCTION

4-2-1. General description

The self diagnostic function of this set comprises four channels to detect analog voltage (180 V, 70 V DC voltage for panel drive, and 2 kinds of panel back side temperature) using A/D converters, six channels of shift registers to detect fan operations and power supply temperature threshold values, and digital 5 V detection (microprocessor port). In case of an alarm or trouble, it displays a "trouble code" on the service code indicator in the power supply block, and also it blinks a standby indictor on the control panel and displays the detected data on the "STATUS" of the service menu. Further, it performs the "shut down" operation forcibly if an alarm status exceeds allowable value.

The detection items are as follows:

1. Detection of internal DC voltage 180 [V] rise and drop.
2. Detection of internal DC voltage 70 [V] rise and drop.
3. Detection of temperature rise at panel top on power supply block side, and shut down.
4. Detection of temperature rise at panel top on input terminal block side, and shut down.
5. Detection of fan operation stop.
   *Three fans at panel top, and two fans for power supply
6. Detection of temperature rise in power supply block.
7. Shut down by faulty 5 [V] for internal digital circuits.
8. Detection of EEPROM trouble
9. PDP trouble diagnosis by combining voltage detections, and shout down.

4-2-2. Trouble criteria

1. Internal DC voltage 180 [V] rise and drop
   (Service menu function name: DC 180 V)
   Normal range is reference voltage 180 [V] ± 36 [V].
   High voltage warning for more than 216 [V].

   Service code [11]
   Low voltage warning for less than 144 [V].

   Service code [12]

2. Internal DC voltage 70 [V] rise and drop
   (Service menu function name: DC 70 V)
   Normal range is reference voltage 70 [V] ± 14 [V].
   High voltage warning for more than 84 [V].

   Service code [21]
   Low voltage warning for less than 56[V].

   Service code [22]

3. Temperature rise at PDP panel back side top on power supply block side
   (Service menu function name: PTEMP1)
   Normal range is up to 58 [dC].
   High temp. warning for more than 59 [dC].

   Service code [31]
   Shut down for more than 68 [dC].   Service code [39]

4. Temperature rise at PDP panel back side top on input terminal block side
   (Service menu function name: P TEMP2)
   Normal range is up to 54 [dC].
   High temp. warning for more than 55 [dC].

   Service code [41]
   Shut down for more than 64 [dC].   Service code [49]

5. Cooling fan motor stop
   (Service menu function name: FAN)
   In the service menu STATUS, each fan status is displayed with "L" or "H".

$$FAN : LLLLL$$

Set back side top center Service code [55]

Set back side top on power supply side Service code [54]

Set back side top on input terminal side Service code [53]

Power supply block (2 pcs) Service code [52] or [51]

OSD display ......L for normal, or H for abnormal (stop)

6. Temperature rise in power supply block (Service menu function name: P/S TEMP)

High temperature warning is output if the temperature of radiator panel for main converter in power supply block exceeds the allowable value.   Service code [61]

7. Faulty 5 [V] for PDP and digital circuits (Service menu function name: None)

The voltage entered to the system controller (IC252) pin 62 is detected.

Shut down if no voltage is entered.   Service code [79]

8. EEPROM Access error (Service menu function name: None)

Warning if communication with EEPROM failed.

EEPROM1 (IC254) error.   Service code [81]

EEPROM2 (IC255) error.   Service code [82]

9. PDP trouble diagnosis (Service menu function name: None)

The PDP will be troubled, if digital 5 V is normal but both DC 180 V and DC 70 V are not entered, among PDP drive voltages (DC 180 V, DC 70 V, and digital 5 V).

When the following voltage conditions are all satisfied

1)   DC 180 V is less than 40 [V]

2)   DC 70 V is less than 20 [V]

3)   Digital 5 V is normal

this function places the PDP in standby mode once, then restarts the power supply. It repeats this operation three times, and if the above three conditions are not recovered normally, it judges the PDP as trouble, and shuts it down.   Service code [99]

4-3. PFM-500A1W TROUBLE CODES LIST

Display codes	Function Trouble Status	name
11	DC180V high voltage warning (over 216 V)	DC 180V
12	DC180V low voltage warning (below 144 V)	DC 180V
21	DC70V high voltage warning (over 84 V)	DC 70V
22	DC70V low voltage warning (below 56 V)	DC 70V
31	High temp. warning at panel top on power supply block side (over 59 °C)	PANEL TEMP1
39	Shut down by high temp. at panel top on power supply block side (over 68 °C)	PANEL TEMP1
41	High temp. warning at panel top on input terminal block side (over 55 °C)	PANEL TEMP2
49	Shut down by high temp. at panel top on input terminal block side (over 64 °C)	PANEL TEMP2
51	Power supply block intake fan 1 stop warning	FAN STATUS
52	Power supply block intake fan 2 stop warning	FAN STATUS
53	Panel top input terminal block exhaust fan stop warning	FAN STATUS
54	Panel top power supply block exhaust fan stop warning	FAN STATUS
55	Panel top center exhaust fan stop warning	FAN STATUS
61	Power supply block high internal temp. warning	P/S TEMP
79	Shut down by faulty 5V for digital circuits	
81	EEPROM1 Access error	
82	EEPROM2 Access error	
99	Shut down by panel trouble (when digital 5 V is normal, DC 180 V is below 40 V, and DC 70 V is below 20 V, the power supply is restarted 3 times repeatedly, but these voltages are not recovered normally)	

SECTION 5
SEMICONDUCTORS

BA10358F
CXA1211M
LM2903PS
MM1113XFBE
MM1114XFBE
TC4W53FU
TC7W14FU (TE12R)
TL026CPS-E05
TL082M
24LC21T/SN

8pin SOP

BA7657F-E2
TA8184F (EL)
UPC659AGS-E2

24pin SOP

CXA1779P
MC68HC05P6SC442119B

28pin DIP

CXD2024AQ
CXD303-105Q

CXD2302Q

32pin QFP

EPC1PC8
MM1170BFB

8pin DIP

EPF10K20TC144-3

144pin QFP

HD6473257F10-IFM1

64pin QFP

HM530281-20
UPD23C8000XGX-340-E2

44pin SOP

ICS9161A-01CW16T
KS6369-20AP

16pin DIP

LM35DZ

MAX202CSE
MC74HC4051F
MC74HC4052F
MC74HC4053F
MC74HC4538F
MC74HC589AFEL
MC74HC595AF
TC74VHC157F
TDA4665T-T

16pin SOP

MC74HC04AF
MC74HC08AF
MC74HC132AF
MC74HC4078AF
MC74HC74AF
SN74HC14ANS
TC74VHC00F
TC74VHC74F

14pin SOP

M52036SP

20pin DIP

M6M80041FP

10pin SOP

M62352GP-75E
MC74HC244AF
SN74ABT540NS-E05
SN74ABT574NS-E20
TC35095AF
TC74VHC245F (EL)
TC74VHC574F
UPD6453GT-664-E2

20pin SOP

TA78L09F-TE12L

TA8200AH

TC4S69F
TC7S08FU (TE85R)

5pin CHIP

UPC1093J-1-T

UPC1830GT-E2

TOP VIEW

42pin SOP

UPC1862GS-E2

TOP VIEW

36pin SOP

UPC2405HF
UPC24M12HF

UPD42280GU-30

TOP VIEW

28pin SOP

UPD485505G-25

TOP VIEW

24pin DIP

UPD6486GF-3BA

INDEX

DTA114EK
DTA124EKA-T146
DTA144EK
DTA144EKA-T146
DTC114YKA-T146
DTC144EK
DTC144EKA-T146
2SA1036K-R
2SA1037AK-T146-R
2SA1162-G
2SC1623-L5L6

CL-170D-CD-T

CATHODE MARK

DTZ-TT11-3.3B
DTZ4.7C
MA111
RD12SB2
RD5.6S-B
1SS355

ANODE

CATHODE

D1N20R
RD10ESB2
RD36ES-B2

CATHODE

ANODE

MA3100-TX
RD5.6M-B2

MA77

ANODE

CATHODE

RD33EB3T

CATHODE

ANODE

1SS226

SECTION 6
EXPLODED VIEWS

NOTE:
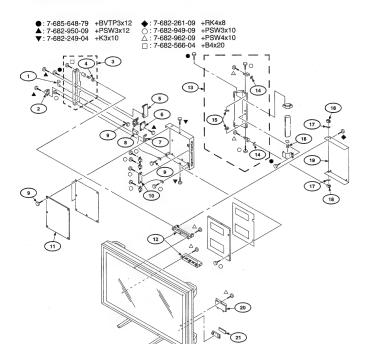
• Items with no part number and no description are not stocked because they are seldom required for routine service.

• The construction parts of an assembled part are indicated with a collation number in the remark column.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

PFM-500A1WU/500A1WE

6-1. POWER BLOCK

● : 7-685-648-79 +BVTP3x12   ◆ : 7-682-261-09 +RK4x8
▲ : 7-682-950-09 +PSW3x12   ○ : 7-682-949-09 +PSW3x10
▼ : 7-682-249-04 +K3x10   △ : 7-682-962-09 +PSW4x10
                                   □ : 7-682-566-04 +B4x20
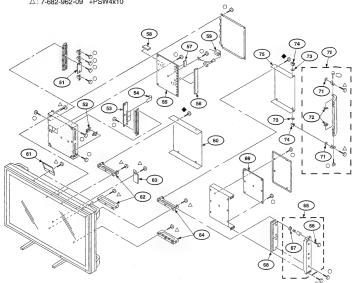
Rf.No.	Part No.	Description	Remark		Rf.No.	Part No.	Description	Remark
1	* 4-052-200-01	HANDLE, PROTECTOR			11	△* 1-468-331-11	POWER, PDP	
2	* 2-990-241-02	HOLDER (A), PLUG			12	* X-4035-835-1	BRACKET ASSY, REAR COVER	
3	* X-4035-836-1	PANEL ASSY, POWER UNIT	4		13	* X-4035-827-1	COVER ASSY, SIDE	14, 15
4	* 3-648-057-00	NUT (ISO-4), U			14	* 3-696-510-01	WASHER (3), STOPPER	
5	* A-1373-670-A	UA BOARD, COMPLETE			15	* 4-065-249-01	NUT, PLATE	
					16	* 3-669-594-00	SPRING, COMPRESSION	
6	* A-1294-154-A	AF BOARD, COMPLETE						
7	* 3-625-620-00	BRACKET, AC CONNECTOR			17	* 3-701-444-21	WASHER, 6	
8	* 1-239-874-11	FILTER, NOISE (GL-2080C1)			18	* 4-065-239-01	NUT	
9	* 4-066-309-01	SCREW, MACHINE, (+) P M4Å–8			19	* X-4035-830-1	COVER (A) ASSY, REAR	
10	* A-1311-645-A	G2 BOARD, COMPLETE			20	* 4-065-262-01	COVER, HAND HOLE	
					21	* A-1372-453-A	H6 BOARD, COMPLETE	

PFM-500A1WU/PFM-500A1WE
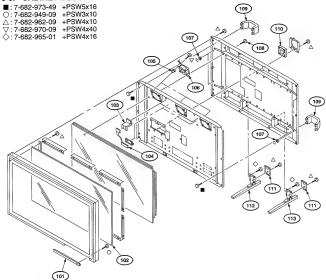
6-2. SC AND I/O BLOCKS

◆ : 7-682-261-09   +RK4x8
○ : 7-682-949-09   +PSW3x10
△ : 7-682-962-09   +PSW4x10
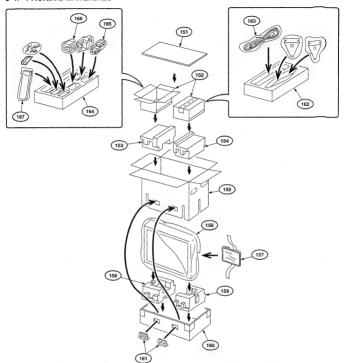
Rf.No.	Part No.	Description	Remark	Rf.No.	Part No.	Description	Remark
51	* A-1311-644-A	G1 BOARD, COMPLETE		64	* X-4035-835-1	BRACKET ASSY, REAR COVER	
52	* 4-065-253-01	NUT (A), PLATE		65	* X-4035-837-1	PANEL ASSY, I/O UNIT	66, 67
53	* A-1372-454-A	H5 BOARD, COMPLETE		66	* 4-050-804-01	SCREW, PANEL STOPPER	
54	* 1-575-455-11	WIRE, FLAT TYPE (30 CORE)		67	* 3-648-057-00	NUT (ISO-4), U	
55	* A-1131-324-A	B BOARD, COMPLETE		68	* A-1373-671-A	UJ BOARD, COMPLETE	
56	* A-1372-452-A	H2 BOARD, COMPLETE		69	* A-1372-455-A	H1 BOARD, COMPLETE	
57	* A-1131-325-A	B1 BOARD, COMPLETE		70	* X-4035-827-1	COVER ASSY, SIDE	71, 72
58	* A-1294-135-A	AI BOARD, COMPLETE		71	* 3-696-510-01	WASHER (3),	
59	* 1-500-037-11	CORE, FERRITE (WITH CASE)		72	* 4-065-249-01	NUT, PLATE	
60	* 4-065-283-01	COVER (B), REAR		73	* 3-701-444-21	WASHER, 6	
				74	* 4-065-239-01	NUT	
61	* 4-065-270-01	COVER, FAN		75	* X-4035-830-1	COVER (A) ASSY, REAR	
62	* X-4035-917-1	BRACKET ASSY (B), REAR COVER					
63	* A-1380-574-A	S1 BOARD, COMPLETE					

CABINET BLOCK

6-3. CABINET BLOCK

■ : 7-682-973-49 +PSW5x16
○ : 7-682-949-09 +PSW3x10
△ : 7-682-962-09 +PSW4x10
▽ : 7-682-970-09 +PSW4x40
◇ : 7-682-965-01 +PSW4x16

Rf.No.	Part No.	Description	Remark	Rf.No.	Part No.	Description	Remark
101	* 1-475-914-11	BOARD UNIT, KEY		108	* 4-957-517-01	SCREW (5*~40), +PSW	
102	* 1-758-200-11	GLASS, OPTICAL FILTER		109	* 4-065-263-01	HANDLE	
103	* 4-065-280-01	BRACKET, SENSOR		110	* 1-763-143-11	DC FAN (WITH SENSOR)	
104	* A-1390-878-A	S1 BOARD, COMPLETE		111	* 4-065-296-01	COVER, FOOT	
105	* 4-062-616-01	BUSHING, RUBBER		112	* X-4035-829-1	FOOT (L) ASSY	
106	* 1-763-144-11	FAN, DC		113	* X-4035-828-1	FOOT (R) ASSY	
107	* 4-065-237-01	NUT, PLATE					

6-4. PACKING MATERIALS

Rf.No.	Part No.	Description	Remark	Rf.No.	Part No.	Description	Remark
151	* 4-066-055-01	COVER, TOP		161	* 3-674-673-01	STOPPER	
152	* 4-065-582-01	BOX, ACCESSORIES		162	* 4-066-056-01	CUSHION (A)	
153	* 4-065-576-01	CUSHION, UPPER (L)		163	⚠ 1-558-527-11	CORD, POWER (3 CORE) [500A1WU]	
154	* 4-065-577-01	CUSHION, UPPER (R)		163	⚠ 1-590-151-11	SET, CODE [500A1WE]	
155	* 4-065-580-01	INDIVIDUAL CARTON		164	* 4-066-057-01	CUSHION (B)	
156	* 4-375-488-02	BAG, PROTECTION		165	1-543-653-21	CORE ASSY, BEAD (DIVISION TYPE)	
157	3-864-200-01	MANUAL, INSTRUCTION		166	2-990-242-01	HOLDER (B) [500A1WU]	
158	* 4-065-578-01	CUSHION, LOWER (L)		166	* 3-613-640-01	PLUG, HOLDER C [500A1WE]	
159	* 4-065-579-01	CUSHION, LOWER (R)		167	1-475-089-11	REMOTE COMMANDER (RM-921)	
160	* 4-065-581-01	TRAY					

MB-514

6-5. MB-514

● : 7-688-005-02 W5
▲ : 7-682-948-09 +PSW3x8
▼ : 7-682-961-09 +PSW4x8
■ : 7-682-973-49 +PSW5x16
◆ : 7-623-213-22 SW6
★ : 7-688-006-12 W6
○ : 7-624-197-71 C20
△ : 7-688-000-26 W20
▽ : 7-688-000-25 W16
□ : 7-624-197-31 C16
◇ : 7-684-026-04 N6

Rf.No.	Part No.	Description	Remark	Rf.No.	Part No.	Description	Remark
1	* X-4035-976-11	BRACKET ASSY, MOUNTING	2-11	10	* 4-066-362-01	PIN	
2	* 4-066-350-01	SHAFT (B), FIXED					
3	* 4-066-365-01	GUARD, EDGE		11	* 4-066-361-01	BRACKET, LOCK	
4	3-618-078-00	RING, RETAINING, CE TYPE		12	X-4035-975-12	HANDLE ASSY	
5	3-638-493-02	RING, RETAINING, CE		13	* X-4035-977-11	BRASKET ASSY, WALL	
				14	4-066-358-01	KNOB	
6	* 4-066-363-01	DAMPER, GAS		15	3-864-657-01	OPERATING INSTRUCTIONS	
7	4-066-364-01	ROPE, WIRE					
8	* 4-066-351-01	SPRING, COMPRESSION		16	3-364-658-01	INSTALLATION MANUAL FOR DEALER	
9	* 4-066-349-01	SHAFT (A), FIXED					

PFM-500A1WU/PFM-500A1WE

NOTE:

The components identified by mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies par une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- CAPACITORS
  PF : μμ F

- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

Rf.NO.	PART NO.	DESCRIPTION		REMARK		Rf.NO.	PART NO.	DESCRIPTION		REMARK
	* A-1131-324-A	B BOARD, COMPLETE				C103	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
		*********************				C104	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
	* 1-526-652-21	SOCKET, IC (DP) 8P				C105	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
	4-623-699-01	SCREW (3X5)				C106	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
						C107	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
						C108	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
		<CAPACITOR>				C109	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C110	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C2	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C111	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C3	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C112	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C4	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V						
C5	1-164-492-11	CERAMIC CHIP 0.15MF	10%	16V		C113	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
						C140	1-135-216-11	TANTAL. CHIP 10MF	20%	10V
C6	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C141	1-135-216-11	TANTAL. CHIP 10MF	20%	10V
C7	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C142	1-135-216-11	TANTAL. CHIP 10MF	20%	10V
C8	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C150	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C9	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V						
C10	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C151	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
						C152	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C11	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C153	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C12	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V		C154	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C13	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C155	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C14	1-163-231-11	CERAMIC CHIP 15PF	5%	50V						
C15	1-163-231-11	CERAMIC CHIP 15PF	5%	50V		C156	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
						C157	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C16	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C158	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C17	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C159	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C18	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C160	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C19	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V						
C20	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C161	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
						C162	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C21	1-135-216-11	TANTAL. CHIP 10MF	20%	10V		C163	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C22	1-135-216-11	TANTAL. CHIP 10MF	20%	10V		C190	1-135-216-11	TANTAL. CHIP 10MF	20%	10V
C23	1-163-237-11	CERAMIC CHIP 27PF	5%	50V		C191	1-135-216-11	TANTAL. CHIP 10MF	20%	10V
C25	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V						
C26	1-135-216-11	TANTAL. CHIP 10MF	20%	10V		C192	1-135-216-11	TANTAL. CHIP 10MF	20%	10V
						C199	1-163-021-91	CERAMIC CHIP 0.01MF	10%	50V
C29	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C200	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C30	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C201	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C31	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C202	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C37	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V						
C90	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C203	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
						C204	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C91	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C205	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C92	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C206	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C100	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C207	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C101	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V						
C102	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		C208	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V

Rf.No.	PART NO.	DESCRIPTION		REMARK	
C209	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C210	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C211	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C212	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C213	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C240	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C241	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C242	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C248	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C249	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C250	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C251	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C252	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C253	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C254	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C255	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C256	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C257	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C259	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C260	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C261	1-126-964-11	ELECT	10MF	20%	50V
C301	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C302	1-163-089-00	CERAMIC CHIP	6PF	0.5PF	50V
C317	1-107-701-11	ELECT	47MF	20%	16V
C318	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C319	1-107-701-11	ELECT	47MF	20%	16V
C320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C321	1-107-701-11	ELECT	47MF	20%	16V
C322	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C329	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C330	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C331	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C332	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C333	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C335	1-126-960-11	ELECT	1MF	20%	50V
C336	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C337	1-109-889-11	ELECT	1MF	20%	50V
C338	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C339	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C340	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C341	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C342	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C343	1-104-664-11	ELECT	47MF	20%	16V
C344	1-104-664-11	ELECT	47MF	20%	16V
C345	1-104-664-11	ELECT	47MF	20%	16V
C346	1-126-961-11	ELECT	2.2MF	20%	50V
C347	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C348	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C349	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C350	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C351	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C352	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C353	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C354	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C355	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C356	1-126-934-11	ELECT	220MF	20%	16V
C357	1-126-960-11	ELECT	1MF	20%	50V
C358	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C359	1-126-963-11	ELECT	4.7MF	20%	50V
C360	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C361	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C362	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C363	1-126-956-91	ELECT	0.1MF	20%	50V
C364	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C365	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C366	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C367	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C368	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C369	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C370	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C371	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C372	1-126-965-11	ELECT	22MF	20%	50V
C373	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C374	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C375	1-104-664-11	ELECT	47MF	20%	16V
C378	1-107-716-11	ELECT	33MF	20%	16V
C379	1-107-716-11	ELECT	33MF	20%	16V
C380	1-107-716-11	ELECT	33MF	20%	16V
C381	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C382	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C383	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C384	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C385	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C386	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C387	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C388	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C389	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C390	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C391	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C392	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C397	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C398	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C401	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C402	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C403	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C404	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C405	1-135-216-11	TANTAL. CHIP	10MF	20%	10V
C406	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C501	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C502	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C503	1-126-933-11	ELECT	100MF	20%	16V
C504	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C505	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C506	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C507	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C508	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C509	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C510	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C511	1-126-933-11	ELECT	100MF	20%	16V
C512	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C513	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C514	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C515	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C516	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C517	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C518	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C520	1-126-933-11	ELECT	100MF	20%	16V
C521	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C522	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

Rf.NO.	PART NO.	DESCRIPTION		REMARK		Rf.NO.	PART NO.	DESCRIPTION		REMARK	
C523	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C604	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C524	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C605	1-104-664-11	ELECT	47MF	20%	25V
C525	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C606	1-104-664-11	ELECT	47MF	20%	25V
C526	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C607	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C527	1-126-934-11	ELECT	220MF	20%	16V	C608	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C528	1-126-933-11	ELECT	100MF	20%	16V	C609	1-104-664-11	ELECT	47MF	20%	16V
C530	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V	C610	1-104-664-11	ELECT	47MF	20%	16V
C531	1-104-664-11	ELECT	47MF	20%	25V	C611	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C532	1-104-664-11	ELECT	47MF	20%	25V	C612	1-104-664-11	ELECT	47MF	20%	16V
C533	1-126-960-11	ELECT	1MF	20%	50V	C613	1-104-664-11	ELECT	47MF	20%	16V
C534	1-164-344-11	CERAMIC CHIP 0.068MF		10%	25V	C614	1-104-664-11	ELECT	47MF	20%	16V
C535	1-126-964-11	ELECT	10MF	20%	50V	C615	1-107-716-11	ELECT	33MF	20%	16V
C536	1-163-017-00	CERAMIC CHIP 0.0047MF		10%	25V	C616	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V
C538	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C618	1-163-251-11	CERAMIC CHIP 100PF		5%	50V
C539	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C619	1-163-251-11	CERAMIC CHIP 100PF		5%	50V
C540	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C620	1-104-664-11	ELECT	47MF	20%	16V
C541	1-163-809-11	CERAMIC CHIP 0.047MF		10%	25V	C701	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C542	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C702	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C543	1-163-809-11	CERAMIC CHIP 0.047MF		10%	25V	C703	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C544	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C704	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C545	1-163-809-11	CERAMIC CHIP 0.047MF		10%	25V	C705	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C546	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C706	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C547	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C707	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C548	1-163-251-11	CERAMIC CHIP 100PF		5%	50V	C708	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C549	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C709	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C550	1-126-934-11	ELECT	220MF	20%	16V	C710	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C551	1-163-251-11	CERAMIC CHIP 100PF		5%	50V	C711	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C552	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C712	1-126-933-11	ELECT	100MF	20%	16V
C553	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C713	1-126-933-11	ELECT	100MF	20%	16V
C554	1-163-237-11	CERAMIC CHIP 27PF		5%	50V	C714	1-163-251-11	CERAMIC CHIP 100PF		5%	50V
C555	1-163-251-11	CERAMIC CHIP 100PF		5%	50V	C715	1-163-251-11	CERAMIC CHIP 100PF		5%	50V
C556	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C716	1-163-251-11	CERAMIC CHIP 100PF		5%	50V
C557	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C717	1-163-251-11	CERAMIC CHIP 100PF		5%	50V
C558	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C718	1-126-934-11	ELECT	220MF	20%	16V
C559	1-104-664-11	ELECT	47MF	20%	25V	C719	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C560	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V	C721	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C561	1-164-004-11	CERAMIC CHIP 0.1MF		5%	25V	C728	1-104-653-11	ELECT	220MF	20%	16V
C562	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C729	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C563	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C730	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C564	1-163-275-11	CERAMIC CHIP 0.001MF		5%	50V	C731	1-126-934-11	ELECT	220MF	20%	16V
C565	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V	C732	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C566	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V	C733	1-126-934-11	ELECT	220MF	20%	16V
C567	1-163-253-11	CERAMIC CHIP 120PF		5%	50V	C734	1-104-664-11	ELECT	47MF	20%	16V
C568	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C735	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C569	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C736	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C570	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C737	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C571	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C738	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C573	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C764	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C574	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C765	1-126-934-11	ELECT	220MF	20%	16V
C575	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C781	1-163-009-11	CERAMIC CHIP 0.001MF		10%	50V
C580	1-126-934-11	ELECT	220MF	20%	16V	C784	1-163-009-11	CERAMIC CHIP 0.001MF		10%	50V
C581	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C786	1-163-009-11	CERAMIC CHIP 0.001MF		10%	50V
C590	1-163-243-11	CERAMIC CHIP 47PF		5%	50V	C803	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C591	1-104-664-11	ELECT	47MF	20%	16V	C804	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C592	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C805	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C593	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C806	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C600	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C807	1-126-934-11	ELECT	220MF	20%	10V
C601	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C808	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C602	1-104-664-11	ELECT	47MF	20%	25V	C809	1-126-934-11	ELECT	220MF	20%	10V
C603	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C810	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V

Rf.NO.	PART NO.	DESCRIPTION		REMARK		Rf.NO.	PART NO.	DESCRIPTION		REMARK	
C811	1-126-934-11	ELECT	220MF	20%	10V	C1035	1-163-009-11	CERAMIC CHIP 0.001MF		10%	50V
C812	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1036	1-104-664-11	ELECT	47MF	20%	16V
C813	1-126-934-11	ELECT	220MF	20%	16V	C1037	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C814	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1038	1-163-009-11	CERAMIC CHIP 0.01MF		10%	50V
C815	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1039	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V
C816	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1040	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C817	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1041	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C818	1-126-934-11	ELECT	220MF	20%	16V	C1042	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C819	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1043	1-104-664-11	ELECT	47MF	20%	16V
C820	1-126-934-11	ELECT	220MF	20%	16V	C1044	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V
C821	1-126-934-11	ELECT	220MF	20%	16V	C1045	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C822	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1046	1-104-664-11	ELECT	47MF	20%	16V
C823	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1047	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C824	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1048	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V
C825	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1049	1-126-964-11	ELECT	10MF	20%	50V
C826	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1050	1-163-091-00	CERAMIC CHIP 8PF		0.25PF	50V
C827	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V						
C828	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1051	1-104-664-11	ELECT	47MF	20%	16V
C829	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1052	1-126-964-11	ELECT	10MF	20%	50V
C830	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1053	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
						C1054	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C831	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V						
C832	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1055	1-104-664-11	ELECT	47MF	20%	16V
C833	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1056	1-126-964-11	ELECT	10MF	20%	50V
C834	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1057	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C835	1-164-253-11	CERAMIC CHIP 0.1MF		10%	25V	C1058	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
						C1059	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V
C836	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V						
C837	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1060	1-164-346-11	CERAMIC CHIP 1MF		16V	
C1001	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1061	1-126-960-11	ELECT	1MF	20%	50V
C1002	1-104-664-11	ELECT	47MF	20%	16V	C1062	1-104-664-11	ELECT	47MF	20%	16V
C1003	1-104-664-11	ELECT	47MF	20%	16V	C1063	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
						C1064	1-163-241-11	CERAMIC CHIP 39PF		5%	50V
C1004	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V						
C1005	1-104-664-11	ELECT	47MF	20%	16V	C1065	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V
C1006	1-163-231-11	CERAMIC CHIP 15PF		5%	50V	C1066	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C1007	1-163-243-11	CERAMIC CHIP 47PF		5%	50V	C1067	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C1008	1-163-253-11	CERAMIC CHIP 120PF		5%	50V	C1068	1-104-664-11	ELECT	47MF	20%	16V
						C1069	1-104-664-11	ELECT	47MF	20%	16V
C1009	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V						
C1010	1-126-964-11	ELECT	10MF	20%	50V	C1070	1-163-231-11	CERAMIC CHIP 15PF		5%	50V
C1011	1-107-698-11	ELECT	10MF	20%	25V	C1071	1-163-243-11	CERAMIC CHIP 47PF		5%	50V
C1012	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1072	1-126-964-11	ELECT	10MF	20%	50V
C1013	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1073	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V
						C1074	1-163-231-11	CERAMIC CHIP 15PF		5%	50V
C1014	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V						
C1015	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1075	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C1016	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1076	1-126-964-11	ELECT	10MF	20%	50V
C1017	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1077	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C1018	1-104-665-11	ELECT	100MF	20%	10V	C1078	1-126-961-11	ELECT	2.2MF	20%	50V
						C1079	1-126-960-11	ELECT	1MF	20%	50V
C1019	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V						
C1020	1-104-664-11	ELECT	47MF	20%	16V	C1080	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C1021	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1081	1-104-664-11	ELECT	47MF	20%	16V
C1023	1-104-664-11	ELECT	47MF	20%	16V	C1082	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V
C1024	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1083	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V
						C1084	1-163-021-91	CERAMIC CHIP 0.01MF		10%	50V
C1025	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V						
C1026	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1085	1-126-959-11	ELECT	0.47MF	20%	50V
C1027	1-164-346-11	CERAMIC CHIP 1MF		16V		C1086	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C1028	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1087	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C1029	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1088	1-126-963-11	ELECT	4.7MF	20%	50V
						C1090	1-163-227-11	CERAMIC CHIP 10PF		0.5PF	50V
C1030	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V						
C1031	1-104-664-11	ELECT	47MF	20%	16V	C1091	1-163-227-11	CERAMIC CHIP 10PF		0.5PF	50V
C1032	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1092	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V
C1033	1-104-664-11	ELECT	47MF	20%	16V	C1093	1-104-664-11	ELECT	47MF	20%	16V
C1034	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	C1094	1-163-243-11	CERAMIC CHIP 47PF		5%	50V

Rf.NO.	PART NO.	DESCRIPTION	REMARK
C1095	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C1096	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1097	1-104-664-11	ELECT 47MF	20% 16V
C1098	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1099	1-104-664-11	ELECT 47MF	20% 16V
C1100	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1101	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1102	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1103	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C1104	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V
C1105	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C1106	1-126-963-11	ELECT 4.7MF	20% 50V
C1107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1108	1-104-664-11	ELECT 47MF	20% 16V
C1109	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C1110	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V
C1111	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V
C1150	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1151	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1152	1-107-716-11	ELECT 33MF	20% 16V
C1153	1-104-664-11	ELECT 47MF	20% 16V
C1154	1-126-934-11	ELECT 220MF	20% 16V
C1155	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1156	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
		<CONNECTOR>	
CN1	1-774-532-11	CONNECTOR, BOARD TO BOARD 15P	
CN2	1-774-531-11	CONNECTOR, BOARD TO BOARD 10P	
CN6	1-506-476-11	PIN, CONNECTOR 11P	
CN9	1-506-480-11	PIN, CONNECTOR 15P	
CN10	1-774-530-11	CONNECTOR, BOARD TO BOARD 5P	
CN11	1-774-530-11	CONNECTOR, BOARD TO BOARD 5P	
CN12	1-774-532-11	CONNECTOR, BOARD TO BOARD 15P	
CN13	1-774-532-11	CONNECTOR, BOARD TO BOARD 15P	
CN14	1-774-532-11	CONNECTOR, BOARD TO BOARD 15P	
CN15	* 1-785-143-11	HEADER, CONNECTOR(PC BOARD)68P	
CN16	1-774-531-11	CONNECTOR, BOARD TO BOARD 10P	
CN17	1-774-531-11	CONNECTOR, BOARD TO BOARD 10P	
CN18	1-506-480-11	PIN, CONNECTOR 15P	
CN19	* 1-564-005-11	PIN, CONNECTOR 6P	
CN20	1-506-469-11	PIN, CONNECTOR 4P	
CN780	1-506-471-11	PIN, CONNECTOR 6P	
		<DIODE>	
D1	8-719-033-86	DIODE CL-170D-CD-T	
D16	8-719-158-49	DIODE RD12SB2	
D17	8-719-158-49	DIODE RD12SB2	
D18	8-719-158-49	DIODE RD12SB2	
D19	8-719-158-49	DIODE RD12SB2	
D20	8-719-158-49	DIODE RD12SB2	
D21	8-719-158-49	DIODE RD12SB2	
D22	8-719-158-49	DIODE RD12SB2	
D23	8-719-158-49	DIODE RD12SB2	
D203	8-719-404-49	DIODE MA111	
D204	8-719-404-49	DIODE MA111	
D322	8-719-800-76	DIODE 1SS226	
D324	8-719-800-76	DIODE 1SS226	

Rf.NO.	PART NO.	DESCRIPTION	REMARK
D326	8-719-800-76	DIODE 1SS226	
D331	8-719-404-49	DIODE MA111	
D332	8-719-800-76	DIODE 1SS226	
D334	8-719-800-76	DIODE 1SS226	
D336	8-719-800-76	DIODE 1SS226	
D341	8-719-404-49	DIODE MA111	
D501	8-719-421-40	DIODE MA77	
D502	8-719-421-40	DIODE MA77	
D503	8-719-421-40	DIODE MA77	
D504	8-719-421-40	DIODE MA77	
D505	8-719-421-40	DIODE MA77	
D506	8-719-421-40	DIODE MA77	
D508	8-719-800-76	DIODE 1SS226	
D510	8-719-800-76	DIODE 1SS226	
D512	8-719-800-76	DIODE 1SS226	
D514	8-719-800-76	DIODE 1SS226	
D518	8-719-800-76	DIODE 1SS226	
D518	8-719-800-76	DIODE 1SS226	
D520	8-719-421-40	DIODE MA77	
D521	8-719-421-40	DIODE MA77	
D522	8-719-421-40	DIODE MA77	
D523	8-719-421-40	DIODE MA77	
D524	8-719-421-40	DIODE MA77	
D526	8-719-800-76	DIODE 1SS226	
D528	8-719-800-76	DIODE 1SS226	
D530	8-719-800-76	DIODE 1SS226	
D532	8-719-800-76	DIODE 1SS226	
D534	8-719-800-76	DIODE 1SS226	
D536	8-719-800-76	DIODE 1SS226	
D537	8-719-421-40	DIODE MA77	
D538	8-719-421-40	DIODE MA77	
D539	8-719-421-40	DIODE MA77	
D540	8-719-421-40	DIODE MA77	
D541	8-719-421-40	DIODE MA77	
D542	8-719-421-40	DIODE MA77	
D544	8-719-800-76	DIODE 1SS226	
D546	8-719-800-76	DIODE 1SS226	
D548	8-719-800-76	DIODE 1SS226	
D550	8-719-800-76	DIODE 1SS226	
D552	8-719-800-76	DIODE 1SS226	
D554	8-719-800-76	DIODE 1SS226	
D555	8-719-421-40	DIODE MA77	
D777	8-719-158-49	DIODE RD12SB2	
D778	8-719-158-49	DIODE RD12SB2	
D780	8-719-404-49	DIODE MA111	
D781	8-719-404-49	DIODE MA111	
D782	8-719-404-49	DIODE MA111	
D783	8-719-404-49	DIODE MA111	
D1001	8-719-988-62	DIODE 1SS355	
D1002	8-719-988-62	DIODE 1SS355	
		<FERRITE BEAD>	
FB1	1-414-234-11	INDUCTOR CHIP	0UH
FB2	1-414-234-11	INDUCTOR CHIP	0UH
FB3	1-414-234-11	INDUCTOR CHIP	0UH
FB4	1-414-234-11	INDUCTOR CHIP	0UH
FB5	1-414-234-11	INDUCTOR CHIP	0UH
FB6	1-414-234-11	INDUCTOR CHIP	0UH
FB7	1-414-234-11	INDUCTOR CHIP	0UH

B

Rf.NO.	PART NO.	DESCRIPTION	REMARK
FB8	1-414-234-11	INDUCTOR CHIP	0UH
FB16	1-414-234-11	INDUCTOR CHIP	0UH
FB17	1-414-234-11	INDUCTOR CHIP	0UH
FB18	1-414-234-11	INDUCTOR CHIP	0UH
FB19	1-414-234-11	INDUCTOR CHIP	0UH
FB780	1-414-234-11	INDUCTOR CHIP	0UH
FB781	1-414-234-11	INDUCTOR CHIP	0UH
		<FILTER>	
FL501	1-233-554-11	FILTER, LOW PASS	
FL502	1-233-585-11	FILTER, LOW PASS	
FL503	1-233-584-11	FILTER, LOW PASS	
FL504	1-234-144-11	FILTER, LOW PASS	
FL505	1-233-582-11	FILTER, LOW PASS	
FL506	1-233-581-11	FILTER, LOW PASS	
FL507	1-233-554-11	FILTER, LOW PASS	
FL508	1-233-585-11	FILTER, LOW PASS	
FL509	1-233-584-11	FILTER, LOW PASS	
FL510	1-234-144-11	FILTER, LOW PASS	
FL511	1-233-582-11	FILTER, LOW PASS	
FL512	1-233-581-11	FILTER, LOW PASS	
FL513	1-233-554-11	FILTER, LOW PASS	
FL514	1-233-585-11	FILTER, LOW PASS	
FL515	1-233-584-11	FILTER, LOW PASS	
FL516	1-234-144-11	FILTER, LOW PASS	
FL517	1-233-582-11	FILTER, LOW PASS	
FL518	1-233-581-11	FILTER, LOW PASS	
FL1001	1-239-384-11	FILTER, EMI	
FL1002	1-543-775-11	FERRITE	0UH
FL1003	1-543-775-11	FERRITE	0UH
FL1007	1-414-234-11	INDUCTOR CHIP	0UH
FL1008	1-414-234-11	INDUCTOR CHIP	0UH
FL1009	1-543-775-11	FERRITE	0UH
FL1010	1-543-775-11	FERRITE	0UH
FL1011	1-543-775-11	FERRITE	0UH
FL1012	1-239-847-11	FILTER, LOW PASS	
FL1013	1-239-384-11	FILTER, EMI	
FL1014	1-239-384-11	FILTER, EMI	
FL1015	1-239-847-11	FILTER, LOW PASS	
FL1016	1-239-847-11	FILTER, LOW PASS	
FL1017	1-543-775-11	FERRITE	0UH
		<IC>	
IC100	8-759-175-27	IC TC74VHC574F	
IC101	8-759-196-73	IC UPD485505G-25	
IC102	8-759-196-73	IC UPD485505G-25	
IC103	8-759-179-94	IC HM530281-20	
IC104	8-759-179-94	IC HM530281-20	
IC105	8-759-179-94	IC HM530281-20	
IC106	8-759-179-94	IC HM530281-20	
IC107	8-752-375-92	IC CXD303-105Q	
IC108	8-759-175-27	IC TC74VHC574F	
IC150	8-759-175-27	IC TC74VHC574F	
IC151	8-759-196-73	IC UPD485505G-25	
IC152	8-759-196-73	IC UPD485505G-25	
IC153	8-759-179-94	IC HM530281-20	
IC154	8-759-179-94	IC HM530281-20	
IC155	8-759-179-94	IC HM530281-20	
IC156	8-759-179-94	IC HM530281-20	
IC157	8-752-375-92	IC CXD303-105Q	
IC158	8-759-175-27	IC TC74VHC574F	
IC200	8-759-175-27	IC TC74VHC574F	
IC201	8-759-196-73	IC UPD485505G-25	
IC202	8-759-196-73	IC UPD485505G-25	
IC203	8-759-179-94	IC HM530281-20	
IC204	8-759-179-94	IC HM530281-20	
IC205	8-759-179-94	IC HM530281-20	
IC206	8-759-179-94	IC HM530281-20	
IC207	8-752-375-92	IC CXD303-105Q	
IC208	8-759-175-27	IC TC74VHC574F	
IC250	8-752-377-98	IC CXD305-114Q	
IC251	8-759-443-13	IC UPD23C8000XGX-304-E2	
IC253	8-759-162-80	IC MM1170BFB	
IC254	8-759-080-93	IC M6M80041FP	
IC255	8-759-080-93	IC M6M80041FP	
IC256	8-759-080-93	IC M6M80041FP	
IC258	8-759-252-59	IC MAX202CSE	
IC259	8-759-032-53	IC MC74HC244AF	
IC260	8-759-032-53	IC MC74HC244AF	
IC261	8-759-032-53	IC MC74HC244AF	
IC262	8-759-032-53	IC MC74HC244AF	
IC263	8-759-032-14	IC MC74HC08AF	
IC264	8-759-362-35	IC ICS9161A-01CW16T	
IC265	8-759-364-08	IC KS6369-20AP	
IC266	8-759-032-32	IC MC74HC132AF	
IC267	8-759-373-60	IC SN74ABT540NS-E05	
IC268	8-759-373-60	IC SN74ABT540NS-E05	
IC269	8-759-925-05	IC LM2903PS	
IC270	8-759-186-39	IC TC74VHC74F	
IC271	8-759-186-51	IC TC74VHC157F	
IC273	8-759-032-53	IC MC74HC244AF	
IC275	8-759-477-25	IC SN74ABT574ANS-E20	
IC276	8-759-477-25	IC SN74ABT574ANS-E20	
IC277	8-759-477-25	IC SN74ABT574ANS-E20	
IC278	8-759-373-60	IC SN74ABT540NS-E05	
IC280	8-759-186-51	IC TC74VHC157F	
IC285	8-759-186-39	IC TC74VHC74F	
IC286	8-759-081-42	IC TC74VHC00F	
IC287	8-759-186-51	IC TC74VHC157F	
IC288	8-759-058-62	IC TC7S08FU(TE85R)	
IC300	8-752-053-21	IC CXA1211M	
IC301	8-752-053-21	IC CXA1211M	
IC302	8-759-011-65	IC MC74HC4053F	
IC303	8-759-011-65	IC MC74HC4053F	
IC304	8-759-635-27	IC M62352GP-75E	
IC305	8-759-288-85	IC TDA4665T-T	
IC306	8-759-082-61	IC TC4W53FU	
IC317	8-759-011-64	IC MC74HC4052F	
IC318	8-759-032-11	IC MC74HC04AF	
IC319	8-759-360-07	IC BA7657F-E2	
IC321	8-759-372-18	IC UPC1830GT-E2	
IC330	8-759-082-61	IC TC4W53FU	
IC331	8-759-082-61	IC TC4W53FU	
IC501	8-759-011-63	IC MC74HC4051F	
IC502	8-759-635-27	IC M62352GP-75E	
IC503	8-759-537-31	IC M52036SP	
IC505	8-752-070-09	IC CXA1779F	
IC508	8-759-925-80	IC SN74HC14ANS	

Rf.NO.	PART NO.	DESCRIPTION	REMARK
IC509	8-759-198-31	IC UPC1093J-1-T	
IC510	8-759-198-31	IC UPC1093J-1-T	
IC511	8-752-371-18	IC CXD2302Q-T4	
IC512	8-752-371-18	IC CXD2302Q-T4	
IC513	8-752-371-18	IC CXD2302Q-T4	
IC514	8-759-008-40	IC MC74HC4078F	
IC515	8-759-008-40	IC MC74HC4078F	
IC516	8-759-008-40	IC MC74HC4078F	
IC517	8-032-053-51	IC MC74HC244AF	
IC521	8-759-082-61	IC TC4W53FU	
IC522	8-759-008-45	IC MC74HC4538F	
IC523	8-759-058-82	IC TC7S08FU(TE85R)	
IC525	8-759-635-27	IC M62352GP-75E	
IC526	8-759-082-61	IC TC4W53FU	
IC527	8-759-082-61	IC TC4W53FU	
IC528	8-759-082-61	IC TC4W53FU	
IC703	8-759-186-63	IC TC74VHC245F	
IC704	8-759-186-63	IC TC74VHC245F	
IC705	8-759-186-63	IC TC74VHC245F	
IC706	8-759-186-63	IC TC74VHC245F	
IC707	8-759-186-63	IC TC74VHC245F	
IC708	8-759-458-24	IC UPD6453GT-664-E2	
IC712	8-759-390-38	IC UPC24M12AHF	
IC713	8-759-144-82	IC UPC2405HF	
IC714	8-759-144-82	IC UPC2405HF	
IC777	8-759-442-20	IC 24LC21AT/SN	
IC780	8-759-032-43	IC MC74HC157AF-T2	
IC1001	8-752-372-78	IC CXD2024AQ	
IC1002	8-759-296-51	IC UPD6486GF-3BA	
IC1003	8-759-161-24	IC UPC659AGS-E2	
IC1004	8-759-167-20	IC UPD42280GU-30	
IC1005	8-759-167-20	IC UPD42280GU-30	
IC1006	8-759-446-66	IC MM1113XFBE	
IC1007	8-759-446-66	IC MM1113XFBE	
IC1008	8-759-011-65	IC MC74HC4053F	
IC1009	8-759-296-53	IC UPC1862GS-E2	
IC1010	8-759-209-57	IC TC4S69F(TE85R)	
IC1011	8-752-053-21	IC CXA1211M	
IC1012	8-759-277-63	IC TC7W14FU(TE12R)	
		<COIL>	
L302	1-410-193-51	INDUCTOR CHIP	1.2UH
L501	1-410-471-11	INDUCTOR	12UH
L504	1-410-471-11	INDUCTOR	12UH
L506	1-410-471-11	INDUCTOR	12UH
L1001	1-414-042-21	INDUCTOR	18UH
L1006	1-410-193-51	INDUCTOR CHIP	1.2UH
L1007	1-410-193-51	INDUCTOR CHIP	1.2UH
L1008	1-410-193-51	INDUCTOR CHIP	1.2UH
L1009	1-410-193-51	INDUCTOR CHIP	1.2UH
L1010	1-410-193-51	INDUCTOR CHIP	1.2UH
L1011	1-410-193-51	INDUCTOR CHIP	1.2UH
L1012	1-410-193-51	INDUCTOR CHIP	1.2UH
L1013	1-410-193-51	INDUCTOR CHIP	1.2UH
L1014	1-410-193-51	INDUCTOR CHIP	1.2UH
L1015	1-410-193-51	INDUCTOR CHIP	1.2UH
L1016	1-410-193-51	INDUCTOR CHIP	1.2UH
L1017	1-410-204-31	INDUCTOR CHIP	10UH

Rf.NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSISTOR>	
Q1	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q201	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q215	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q307	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q310	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q311	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q313	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q314	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q315	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q316	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q317	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q318	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q320	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q321	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q322	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q323	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q324	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q325	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q326	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q327	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q328	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q329	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q330	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q351	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q352	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q354	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q355	8-729-216-22	TRANSISTOR 2SA1162-G	
Q356	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q357	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q358	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q503	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q504	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q505	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q506	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q507	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q508	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q509	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q510	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q511	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q512	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q513	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q514	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q515	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q516	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q517	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q518	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q519	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q520	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q521	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q522	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q523	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q524	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q525	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q526	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q527	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q528	8-729-027-46	TRANSISTOR DTC114YKA-T146	

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Rf.NO.	PART NO.	DESCRIPTION	REMARK
Q529	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q530	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q531	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q532	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q533	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q534	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q535	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q536	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q537	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q538	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q539	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q540	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q541	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q542	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q543	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q544	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q545	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q546	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q547	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q548	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q549	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q550	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q551	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q552	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q553	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q554	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q555	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q556	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q557	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q558	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q559	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q560	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q561	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q562	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q563	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q564	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q565	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q566	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q567	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q568	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q569	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q570	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q571	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q572	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q573	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q574	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q575	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q576	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q577	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q578	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q579	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q580	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q581	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q582	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q583	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q584	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q585	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q586	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q587	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	

Rf.NO.	PART NO.	DESCRIPTION	REMARK
Q588	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q589	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q590	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q591	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q592	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q593	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q594	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q595	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q596	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q597	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q598	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q599	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q600	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q601	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q602	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q603	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q604	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q605	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q607	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q608	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q609	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q610	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q611	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q612	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q613	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q614	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q615	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q702	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1001	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1003	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1004	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1005	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1006	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1007	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1008	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1009	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1010	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1011	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1012	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1013	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1014	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1015	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1016	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1018	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1019	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1020	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

<RESISTOR>

Rf.NO.	PART NO.	DESCRIPTION				REMARK
R8	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R9	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R10	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R20	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R21	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R22	1-216-025-91	RES,CHIP	100	5%	1/10W	

Rf.NO.	PART NO.	DESCRIPTION			REMARK	Rf.NO.	PART NO.	DESCRIPTION			REMARK
R26	1-216-073-00	RES,CHIP	10K	5%	1/10W	R156	1-216-021-00	RES,CHIP	68	5%	1/10W
R41	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R160	1-216-013-00	RES,CHIP	33	5%	1/10W
R42	1-216-041-00	RES,CHIP	470	5%	1/10W	R161	1-216-013-00	RES,CHIP	33	5%	1/10W
R43	1-216-073-00	RES,CHIP	10K	5%	1/10W	R162	1-216-013-00	RES,CHIP	33	5%	1/10W
						R163	1-216-013-00	RES,CHIP	33	5%	1/10W
R62	1-216-025-91	RES,CHIP	100	5%	1/10W						
R68	1-216-025-91	RES,CHIP	100	5%	1/10W	R164	1-216-013-00	RES,CHIP	33	5%	1/10W
R79	1-216-073-00	RES,CHIP	10K	5%	1/10W	R165	1-216-013-00	RES,CHIP	33	5%	1/10W
R84	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	R166	1-216-009-00	RES,CHIP	22	5%	1/10W
R89	1-216-013-00	RES,CHIP	33	5%	1/10W	R167	1-216-009-00	RES,CHIP	22	5%	1/10W
						R168	1-216-009-00	RES,CHIP	22	5%	1/10W
R90	1-216-073-00	RES,CHIP	10K	5%	1/10W						
R98	1-216-073-00	RES,CHIP	10K	5%	1/10W	R169	1-216-009-00	RES,CHIP	22	5%	1/10W
R101	1-216-023-00	RES,CHIP	82	5%	1/10W	R170	1-216-023-00	RES,CHIP	82	5%	1/10W
R102	1-216-023-00	RES,CHIP	82	5%	1/10W	R171	1-216-023-00	RES,CHIP	82	5%	1/10W
R103	1-216-021-00	RES,CHIP	68	5%	1/10W	R173	1-216-073-00	RES,CHIP	10K	5%	1/10W
						R177	1-216-073-00	RES,CHIP	10K	5%	1/10W
R104	1-216-013-00	RES,CHIP	33	5%	1/10W						
R105	1-216-013-00	RES,CHIP	33	5%	1/10W	R178	1-216-073-00	RES,CHIP	10K	5%	1/10W
R106	1-216-021-00	RES,CHIP	68	5%	1/10W	R179	1-216-073-00	RES,CHIP	10K	5%	1/10W
R108	1-216-013-00	RES,CHIP	33	5%	1/10W	R180	1-216-073-00	RES,CHIP	10K	5%	1/10W
R109	1-216-013-00	RES,CHIP	33	5%	1/10W	R181	1-216-073-00	RES,CHIP	10K	5%	1/10W
						R182	1-216-073-00	RES,CHIP	10K	5%	1/10W
R110	1-216-017-91	RES,CHIP	47	5%	1/10W						
R111	1-216-017-91	RES,CHIP	47	5%	1/10W	R183	1-216-073-00	RES,CHIP	10K	5%	1/10W
R112	1-216-009-00	RES,CHIP	22	5%	1/10W	R184	1-216-025-91	RES,CHIP	100	5%	1/10W
R113	1-216-013-00	RES,CHIP	33	5%	1/10W	R185	1-216-025-91	RES,CHIP	100	5%	1/10W
R114	1-216-013-00	RES,CHIP	33	5%	1/10W	R186	1-216-025-91	RES,CHIP	100	5%	1/10W
						R187	1-216-025-91	RES,CHIP	100	5%	1/10W
R115	1-216-013-00	RES,CHIP	33	5%	1/10W						
R116	1-216-013-00	RES,CHIP	33	5%	1/10W	R188	1-216-025-91	RES,CHIP	100	5%	1/10W
R117	1-216-023-00	RES,CHIP	82	5%	1/10W	R189	1-216-025-91	RES,CHIP	100	5%	1/10W
R118	1-216-013-00	RES,CHIP	33	5%	1/10W	R191	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R119	1-216-013-00	RES,CHIP	33	5%	1/10W	R192	1-216-025-91	RES,CHIP	100	5%	1/10W
						R193	1-216-025-91	RES,CHIP	100	5%	1/10W
R120	1-216-013-00	RES,CHIP	33	5%	1/10W						
R121	1-216-013-00	RES,CHIP	33	5%	1/10W	R194	1-216-025-91	RES,CHIP	100	5%	1/10W
R122	1-216-023-00	RES,CHIP	82	5%	1/10W	R195	1-216-025-91	RES,CHIP	100	5%	1/10W
R123	1-216-009-00	RES,CHIP	22	5%	1/10W	R196	1-216-025-91	RES,CHIP	100	5%	1/10W
R124	1-216-009-00	RES,CHIP	22	5%	1/10W	R197	1-216-097-91	RES,CHIP	100K	5%	1/10W
						R198	1-216-097-91	RES,CHIP	100K	5%	1/10W
R125	1-216-009-00	RES,CHIP	22	5%	1/10W						
R126	1-216-009-00	RES,CHIP	22	5%	1/10W	R199	1-216-073-00	RES,CHIP	10K	5%	1/10W
R127	1-216-009-00	RES,CHIP	22	5%	1/10W	R200	1-216-013-00	RES,CHIP	33	5%	1/10W
R128	1-216-009-00	RES,CHIP	22	5%	1/10W	R201	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R129	1-216-009-00	RES,CHIP	22	5%	1/10W	R202	1-216-049-91	RES,CHIP	1K	5%	1/10W
						R203	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R130	1-216-009-00	RES,CHIP	22	5%	1/10W						
R132	1-216-023-00	RES,CHIP	82	5%	1/10W	R205	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R133	1-216-021-00	RES,CHIP	68	5%	1/10W	R206	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R135	1-216-009-00	RES,CHIP	22	5%	1/10W	R207	1-216-049-91	RES,CHIP	1K	5%	1/10W
R136	1-216-009-00	RES,CHIP	22	5%	1/10W	R208	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
						R216	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R137	1-216-009-00	RES,CHIP	22	5%	1/10W						
R138	1-216-009-00	RES,CHIP	22	5%	1/10W	R217	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R139	1-216-009-00	RES,CHIP	22	5%	1/10W	R218	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R141	1-216-023-00	RES,CHIP	82	5%	1/10W	R219	1-216-073-00	RES,CHIP	10K	5%	1/10W
R142	1-216-009-00	RES,CHIP	22	5%	1/10W	R221	1-216-692-11	METAL CHIP	51K	0.50%	1/10W
						R222	1-216-045-00	RES,CHIP	680	5%	1/10W
R143	1-216-009-00	RES,CHIP	22	5%	1/10W						
R144	1-216-009-00	RES,CHIP	22	5%	1/10W	R223	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R145	1-216-009-00	RES,CHIP	22	5%	1/10W	R224	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R146	1-216-009-00	RES,CHIP	22	5%	1/10W	R225	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R148	1-216-021-00	RES,CHIP	68	5%	1/10W	R226	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
						R227	1-216-686-11	METAL CHIP	30K	0.50%	1/10W
R149	1-216-009-00	RES,CHIP	22	5%	1/10W						
R150	1-216-009-00	RES,CHIP	22	5%	1/10W	R228	1-216-031-00	RES,CHIP	180	5%	1/10W
R151	1-216-009-00	RES,CHIP	22	5%	1/10W	R229	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R153	1-216-025-91	RES,CHIP	100	5%	1/10W	R232	1-216-089-91	RES,CHIP	47K	5%	1/10W
R154	1-216-009-00	RES,CHIP	22	5%	1/10W	R235	1-216-089-91	RES,CHIP	47K	5%	1/10W
						R239	1-216-025-91	RES,CHIP	100	5%	1/10W

Rf.NO.	PART NO.	DESCRIPTION		REMARK	
R240	1-216-295-91	SHORT	0		
R241	1-216-295-91	SHORT	0		
R242	1-216-295-91	SHORT	0		
R243	1-216-660-11	METAL CHIP	2.4K	0.50%	1/10W
R244	1-216-660-11	METAL CHIP	2.4K	0.50%	1/10W
R245	1-216-037-00	RES,CHIP	330	5%	1/10W
R246	1-216-295-91	SHORT	0		
R247	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R248	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R249	1-216-667-11	METAL CHIP	10K	0.50%	1/10W
R250	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R251	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R252	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R253	1-216-037-00	RES,CHIP	330	5%	1/10W
R254	1-216-295-91	SHORT	0		
R257	1-216-660-11	METAL CHIP	2.4K	0.50%	1/10W
R258	1-216-083-00	RES,CHIP	27K	5%	1/10W
R264	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R265	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R266	1-216-295-91	SHORT	0		
R268	1-216-089-91	RES,CHIP	47K	5%	1/10W
R269	1-216-694-11	METAL CHIP	62K	0.50%	1/10W
R270	1-216-073-00	RES,CHIP	10K	5%	1/10W
R271	1-216-073-00	RES,CHIP	10K	5%	1/10W
R272	1-216-073-00	RES,CHIP	10K	5%	1/10W
R273	1-216-073-00	RES,CHIP	10K	5%	1/10W
R274	1-216-073-00	RES,CHIP	10K	5%	1/10W
R275	1-216-073-00	RES,CHIP	10K	5%	1/10W
R276	1-216-073-00	RES,CHIP	10K	5%	1/10W
R277	1-216-073-00	RES,CHIP	10K	5%	1/10W
R278	1-216-073-00	RES,CHIP	10K	5%	1/10W
R279	1-216-073-00	RES,CHIP	10K	5%	1/10W
R280	1-216-073-00	RES,CHIP	10K	5%	1/10W
R281	1-216-073-00	RES,CHIP	10K	5%	1/10W
R282	1-216-073-00	RES,CHIP	10K	5%	1/10W
R283	1-216-073-00	RES,CHIP	10K	5%	1/10W
R284	1-216-073-00	RES,CHIP	10K	5%	1/10W
R285	1-216-073-00	RES,CHIP	10K	5%	1/10W
R286	1-216-073-00	RES,CHIP	10K	5%	1/10W
R287	1-216-073-00	RES,CHIP	10K	5%	1/10W
R288	1-216-073-00	RES,CHIP	10K	5%	1/10W
R289	1-216-073-00	RES,CHIP	10K	5%	1/10W
R290	1-216-073-00	RES,CHIP	10K	5%	1/10W
R291	1-216-073-00	RES,CHIP	10K	5%	1/10W
R292	1-216-073-00	RES,CHIP	10K	5%	1/10W
R293	1-216-073-00	RES,CHIP	10K	5%	1/10W
R294	1-216-073-00	RES,CHIP	10K	5%	1/10W
R295	1-216-073-00	RES,CHIP	10K	5%	1/10W
R296	1-216-073-00	RES,CHIP	10K	5%	1/10W
R297	1-216-073-00	RES,CHIP	10K	5%	1/10W
R298	1-216-073-00	RES,CHIP	10K	5%	1/10W
R299	1-216-073-00	RES,CHIP	10K	5%	1/10W
R300	1-216-073-00	RES,CHIP	10K	5%	1/10W
R301	1-216-073-00	RES,CHIP	10K	5%	1/10W
R308	1-216-025-91	RES,CHIP	100	5%	1/10W
R309	1-216-025-91	RES,CHIP	100	5%	1/10W
R310	1-216-025-91	RES,CHIP	100	5%	1/10W
R311	1-216-025-91	RES,CHIP	100	5%	1/10W
R312	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R313	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W

Rf.NO.	PART NO.	DESCRIPTION		REMARK	
R314	1-216-089-91	RES,CHIP	47K	5%	1/10W
R315	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R316	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R317	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R318	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R319	1-216-049-91	RES,CHIP	1K	5%	1/10W
R320	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R321	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R322	1-216-659-11	METAL CHIP	1.2K	0.50%	1/10W
R323	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R324	1-216-089-91	RES,CHIP	47K	5%	1/10W
R335	1-216-097-91	RES,CHIP	100K	5%	1/10W
R336	1-216-099-00	RES,CHIP	120K	5%	1/10W
R346	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R347	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R348	1-216-295-91	SHORT	0		
R350	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R352	1-216-295-91	SHORT	0		
R353	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R354	1-216-045-00	RES,CHIP	680	5%	1/10W
R355	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R356	1-216-047-91	RES,CHIP	820	5%	1/10W
R357	1-216-025-91	RES,CHIP	100	5%	1/10W
R358	1-216-049-91	RES,CHIP	1K	5%	1/10W
R359	1-216-073-00	RES,CHIP	10K	5%	1/10W
R361	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R362	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R363	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R364	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R365	1-216-033-00	RES,CHIP	220	5%	1/10W
R366	1-216-295-91	SHORT	0		
R367	1-216-295-91	SHORT	0		
R368	1-216-295-91	SHORT	0		
R369	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R370	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R371	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R372	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R373	1-216-690-11	METAL CHIP	43K	0.50%	1/10W
R375	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R376	1-218-756-11	METAL CHIP	150K	0.50%	1/10W
R378	1-216-561-11	METAL CHIP	2.7K	0.50%	1/10W
R379	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R380	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R383	1-218-772-11	METAL CHIP	680K	0.50%	1/10W
R384	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R385	1-216-646-11	METAL CHIP	620	0.50%	1/10W
R387	1-216-121-91	RES,CHIP	1M	5%	1/10W
R388	1-216-121-91	RES,CHIP	1M	5%	1/10W
R389	1-216-121-91	RES,CHIP	1M	5%	1/10W
R392	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R393	1-218-775-11	METAL CHIP	910K	0.50%	1/10W
R394	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R395	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R396	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R399	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R400	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R401	1-218-774-11	METAL CHIP	820K	0.50%	1/10W
R402	1-218-766-11	METAL CHIP	390K	0.50%	1/10W
R403	1-218-774-11	METAL CHIP	820K	0.50%	1/10W
R404	1-216-681-11	METAL CHIP	18K	0.50%	1/10W

Rf.NO.	PART NO.	DESCRIPTION		REMARK	Rf.NO.	PART NO.	DESCRIPTION		REMARK
R405	1-216-683-11	METAL CHIP	22K	0.50% 1/10W	R481	1-216-013-00	RES,CHIP	33	5% 1/10W
R406	1-216-681-11	METAL CHIP	18K	0.50% 1/10W	R482	1-216-013-00	RES,CHIP	33	5% 1/10W
R407	1-216-683-11	METAL CHIP	22K	0.50% 1/10W	R483	1-216-013-00	RES,CHIP	33	5% 1/10W
R408	1-216-681-11	METAL CHIP	18K	0.50% 1/10W	R484	1-216-013-00	RES,CHIP	33	5% 1/10W
R409	1-216-683-11	METAL CHIP	22K	0.50% 1/10W	R485	1-216-013-00	RES,CHIP	33	5% 1/10W
R411	1-216-645-11	METAL CHIP	560	0.50% 1/10W	R486	1-216-013-00	RES,CHIP	33	5% 1/10W
R412	1-216-645-11	METAL CHIP	560	0.50% 1/10W	R487	1-216-013-00	RES,CHIP	33	5% 1/10W
R413	1-216-645-11	METAL CHIP	560	0.50% 1/10W	R488	1-216-013-00	RES,CHIP	33	5% 1/10W
R414	1-216-651-11	METAL CHIP	1K	0.50% 1/10W	R489	1-216-013-00	RES,CHIP	33	5% 1/10W
R415	1-216-651-11	METAL CHIP	1K	0.50% 1/10W	R490	1-216-013-00	RES,CHIP	33	5% 1/10W
R416	1-216-652-11	METAL CHIP	1.1K	0.50% 1/10W	R491	1-216-013-00	RES,CHIP	33	5% 1/10W
R417	1-216-652-11	METAL CHIP	1.1K	0.50% 1/10W	R492	1-216-013-00	RES,CHIP	33	5% 1/10W
R420	1-216-687-11	METAL CHIP	33K	0.50% 1/10W	R493	1-216-013-00	RES,CHIP	33	5% 1/10W
R421	1-216-687-11	METAL CHIP	33K	0.50% 1/10W	R494	1-216-013-00	RES,CHIP	33	5% 1/10W
R422	1-216-695-11	METAL CHIP	68K	0.50% 1/10W	R495	1-216-013-00	RES,CHIP	33	5% 1/10W
R423	1-216-633-11	METAL CHIP	180	0.50% 1/10W	R496	1-216-013-00	RES,CHIP	33	5% 1/10W
R424	1-216-089-91	RES,CHIP	47K	5% 1/10W	R497	1-216-013-00	RES,CHIP	33	5% 1/10W
R425	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R498	1-216-013-00	RES,CHIP	33	5% 1/10W
R426	1-216-676-11	METAL CHIP	11K	0.50% 1/10W	R499	1-216-013-00	RES,CHIP	33	5% 1/10W
R427	1-216-065-91	RES,CHIP	4.7K	5% 1/10W	R500	1-216-013-00	RES,CHIP	33	5% 1/10W
R428	1-216-025-91	RES,CHIP	100	5% 1/10W	R501	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R436	1-216-651-11	METAL CHIP	1K	0.50% 1/10W	R502	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R437	1-216-651-11	METAL CHIP	1K	0.50% 1/10W	R503	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R438	1-216-651-11	METAL CHIP	1K	0.50% 1/10W	R504	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R440	1-216-073-00	RES,CHIP	10K	5% 1/10W	R505	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R441	1-216-073-00	RES,CHIP	10K	5% 1/10W	R506	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R442	1-216-073-00	RES,CHIP	10K	5% 1/10W	R507	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R443	1-216-073-00	RES,CHIP	10K	5% 1/10W	R508	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R444	1-216-073-00	RES,CHIP	10K	5% 1/10W	R509	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R445	1-216-073-00	RES,CHIP	10K	5% 1/10W	R510	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R446	1-216-073-00	RES,CHIP	10K	5% 1/10W	R511	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R447	1-216-073-00	RES,CHIP	10K	5% 1/10W	R512	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R448	1-216-073-00	RES,CHIP	10K	5% 1/10W	R513	1-216-657-11	METAL CHIP	1.8K	0.50% 1/10W
R449	1-216-073-00	RES,CHIP	10K	5% 1/10W	R514	1-216-658-11	METAL CHIP	2K	0.50% 1/10W
R450	1-216-073-00	RES,CHIP	10K	5% 1/10W	R515	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W
R451	1-216-073-00	RES,CHIP	10K	5% 1/10W	R516	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W
R452	1-216-073-00	RES,CHIP	10K	5% 1/10W	R517	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W
R453	1-216-073-00	RES,CHIP	10K	5% 1/10W	R518	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W
R454	1-216-073-00	RES,CHIP	10K	5% 1/10W	R519	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R455	1-216-073-00	RES,CHIP	10K	5% 1/10W	R520	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R456	1-216-073-00	RES,CHIP	10K	5% 1/10W	R521	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R457	1-216-073-00	RES,CHIP	10K	5% 1/10W	R522	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R458	1-216-073-00	RES,CHIP	10K	5% 1/10W	R523	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R459	1-216-073-00	RES,CHIP	10K	5% 1/10W	R524	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R460	1-216-073-00	RES,CHIP	10K	5% 1/10W	R525	1-216-641-11	METAL CHIP	390	0.50% 1/10W
R461	1-216-073-00	RES,CHIP	10K	5% 1/10W	R526	1-216-641-11	METAL CHIP	390	0.50% 1/10W
R462	1-216-073-00	RES,CHIP	10K	5% 1/10W	R527	1-216-641-11	METAL CHIP	390	0.50% 1/10W
R463	1-216-073-00	RES,CHIP	10K	5% 1/10W	R528	1-216-641-11	METAL CHIP	390	0.50% 1/10W
R464	1-216-073-00	RES,CHIP	10K	5% 1/10W	R529	1-216-641-11	METAL CHIP	390	0.50% 1/10W
R465	1-216-073-00	RES,CHIP	10K	5% 1/10W	R530	1-216-641-11	METAL CHIP	390	0.50% 1/10W
R466	1-216-073-00	RES,CHIP	10K	5% 1/10W	R531	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R467	1-216-073-00	RES,CHIP	10K	5% 1/10W	R532	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R468	1-216-073-00	RES,CHIP	10K	5% 1/10W	R533	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R469	1-216-073-00	RES,CHIP	10K	5% 1/10W	R534	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R470	1-216-073-00	RES,CHIP	10K	5% 1/10W	R535	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R471	1-216-073-00	RES,CHIP	10K	5% 1/10W	R536	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R477	1-216-013-00	RES,CHIP	33	5% 1/6hW	R537	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R478	1-216-013-00	RES,CHIP	33	5% 1/10W	R538	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R479	1-216-013-00	RES,CHIP	33	5% 1/10W	R539	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R480	1-216-013-00	RES,CHIP	33	5% 1/10W	R540	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W

Rf.NO.	PART NO.	DESCRIPTION		REMARK	Rf.NO.	PART NO.	DESCRIPTION		REMARK
R541	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R606	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R542	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W	R607	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R543	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R608	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R544	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R609	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R545	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R611	1-216-646-11	METAL CHIP	620	0.50% 1/10W
R546	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R612	1-216-655-11	METAL CHIP	1.5K	0.50% 1/10W
R547	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R613	1-216-649-11	METAL CHIP	820	0.50% 1/10W
R548	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R614	1-216-661-11	METAL CHIP	1K	0.50% 1/10W
R549	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R615	1-216-661-11	METAL CHIP	1K	0.50% 1/10W
R550	1-216-073-00	RES,CHIP	10K	5% 1/10W	R616	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R551	1-216-073-00	RES,CHIP	10K	5% 1/10W	R617	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R552	1-216-073-00	RES,CHIP	10K	5% 1/10W	R618	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R553	1-216-073-00	RES,CHIP	10K	5% 1/10W	R619	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R554	1-216-073-00	RES,CHIP	10K	5% 1/10W	R620	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R555	1-216-639-11	METAL CHIP	330	0.50% 1/10W	R621	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R561	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R622	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R562	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R623	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W
R563	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R624	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R564	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R625	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R565	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R626	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R566	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R627	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R567	1-216-639-11	METAL CHIP	330	0.50% 1/10W	R628	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R568	1-216-639-11	METAL CHIP	330	0.50% 1/10W	R629	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R569	1-216-639-11	METAL CHIP	330	0.50% 1/10W	R630	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R570	1-216-639-11	METAL CHIP	330	0.50% 1/10W	R632	1-216-657-11	METAL CHIP	1.8K	0.50% 1/10W
R571	1-216-639-11	METAL CHIP	330	0.50% 1/10W	R633	1-216-658-11	METAL CHIP	2K	0.50% 1/10W
R572	1-216-639-11	METAL CHIP	330	0.50% 1/10W	R634	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W
R573	1-216-657-11	METAL CHIP	1.8K	0.50% 1/10W	R635	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W
R574	1-216-658-11	METAL CHIP	2K	0.50% 1/10W	R636	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W
R575	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W	R637	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W
R576	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W	R638	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R577	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W	R639	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R578	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W	R640	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R579	1-216-639-11	METAL CHIP	330	0.50% 1/10W	R641	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R580	1-216-639-11	METAL CHIP	330	0.50% 1/10W	R642	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R581	1-216-639-11	METAL CHIP	330	0.50% 1/10W	R643	1-216-639-11	METAL CHIP	330	0.50% 1/10W
R582	1-216-639-11	METAL CHIP	330	0.50% 1/10W	R645	1-216-641-11	METAL CHIP	390	0.50% 1/10W
R583	1-216-639-11	METAL CHIP	330	0.50% 1/10W	R646	1-216-641-11	METAL CHIP	390	0.50% 1/10W
R584	1-216-639-11	METAL CHIP	330	0.50% 1/10W	R647	1-216-641-11	METAL CHIP	390	0.50% 1/10W
R585	1-216-641-11	METAL CHIP	390	0.50% 1/10W	R648	1-216-641-11	METAL CHIP	390	0.50% 1/10W
R586	1-216-641-11	METAL CHIP	390	0.50% 1/10W	R649	1-216-641-11	METAL CHIP	390	0.50% 1/10W
R587	1-216-641-11	METAL CHIP	390	0.50% 1/10W	R650	1-216-641-11	METAL CHIP	390	0.50% 1/10W
R588	1-216-641-11	METAL CHIP	390	0.50% 1/10W	R651	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R589	1-216-641-11	METAL CHIP	390	0.50% 1/10W	R652	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R590	1-216-641-11	METAL CHIP	390	0.50% 1/10W	R653	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R591	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R654	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R592	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W	R655	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R593	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R656	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R594	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W	R657	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R595	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R658	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R596	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W	R659	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R597	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R660	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R598	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W	R661	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R599	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R662	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R600	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W	R663	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R601	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R664	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R602	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W	R665	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R603	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R666	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R604	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R667	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R605	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	R688	1-216-675-11	METAL CHIP	10K	0.50% 1/10W

Rf.NO.	PART NO.	DESCRIPTION		REMARK		Rf.NO.	PART NO.	DESCRIPTION		REMARK	
R669	1-216-639-11	METAL CHIP	330	0.50%	1/10W	R760	1-216-049-91	RES,CHIP	1K	5%	1/10W
R701	1-216-017-91	RES,CHIP	47	5%	1/10W	R761	1-216-017-91	RES,CHIP	47	5%	1/10W
R702	1-216-017-91	RES,CHIP	47	5%	1/10W	R762	1-216-009-00	RES,CHIP	22	5%	1/10W
R703	1-216-017-91	RES,CHIP	47	5%	1/10W	R777	1-216-089-91	RES,CHIP	47K	5%	1/10W
R704	1-216-017-91	RES,CHIP	47	5%	1/10W	R778	1-216-017-91	RES,CHIP	47	5%	1/10W
R705	1-216-017-91	RES,CHIP	47	5%	1/10W	R779	1-216-017-91	RES,CHIP	47	5%	1/10W
R706	1-216-017-91	RES,CHIP	47	5%	1/10W	R780	1-216-017-91	RES,CHIP	47	5%	1/10W
R707	1-216-017-91	RES,CHIP	47	5%	1/10W	R781	1-216-073-00	RES,CHIP	10K	5%	1/10W
R708	1-216-017-91	RES,CHIP	47	5%	1/10W	R801	1-216-009-00	RES,CHIP	22	5%	1/10W
R709	1-216-017-91	RES,CHIP	47	5%	1/10W	R802	1-216-009-00	RES,CHIP	22	5%	1/10W
R710	1-216-017-91	RES,CHIP	47	5%	1/10W	R803	1-216-009-00	RES,CHIP	22	5%	1/10W
R711	1-216-017-91	RES,CHIP	47	5%	1/10W	R804	1-216-009-00	RES,CHIP	22	5%	1/10W
R712	1-216-017-91	RES,CHIP	47	5%	1/10W	R805	1-216-009-00	RES,CHIP	22	5%	1/10W
R713	1-216-017-91	RES,CHIP	47	5%	1/10W	R806	1-216-009-00	RES,CHIP	22	5%	1/10W
R714	1-216-017-91	RES,CHIP	47	5%	1/10W	R807	1-216-009-00	RES,CHIP	22	5%	1/10W
R715	1-216-017-91	RES,CHIP	47	5%	1/10W	R808	1-216-009-00	RES,CHIP	22	5%	1/10W
R716	1-216-017-91	RES,CHIP	47	5%	1/10W	R809	1-216-009-00	RES,CHIP	22	5%	1/10W
R717	1-216-017-91	RES,CHIP	47	5%	1/10W	R810	1-216-009-00	RES,CHIP	22	5%	1/10W
R718	1-216-017-91	RES,CHIP	47	5%	1/10W	R811	1-216-009-00	RES,CHIP	22	5%	1/10W
R719	1-216-017-91	RES,CHIP	47	5%	1/10W	R812	1-216-009-00	RES,CHIP	22	5%	1/10W
R720	1-216-017-91	RES,CHIP	47	5%	1/10W	R813	1-216-009-00	RES,CHIP	22	5%	1/10W
R721	1-216-017-91	RES,CHIP	47	5%	1/10W	R814	1-216-009-00	RES,CHIP	22	5%	1/10W
R722	1-216-017-91	RES,CHIP	47	5%	1/10W	R815	1-216-009-00	RES,CHIP	22	5%	1/10W
R723	1-216-017-91	RES,CHIP	47	5%	1/10W	R816	1-216-009-00	RES,CHIP	22	5%	1/10W
R724	1-216-017-91	RES,CHIP	47	5%	1/10W	R817	1-216-009-00	RES,CHIP	22	5%	1/10W
R725	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R818	1-216-009-00	RES,CHIP	22	5%	1/10W
R726	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R819	1-216-009-00	RES,CHIP	22	5%	1/10W
R727	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R820	1-216-009-00	RES,CHIP	22	5%	1/10W
R728	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R821	1-216-009-00	RES,CHIP	22	5%	1/10W
R729	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R822	1-216-009-00	RES,CHIP	22	5%	1/10W
R730	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R823	1-216-009-00	RES,CHIP	22	5%	1/10W
R731	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R824	1-216-009-00	RES,CHIP	22	5%	1/10W
R732	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R825	1-216-009-00	RES,CHIP	22	5%	1/10W
R733	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R826	1-216-009-00	RES,CHIP	22	5%	1/10W
R734	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R827	1-216-009-00	RES,CHIP	22	5%	1/10W
R735	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R828	1-216-009-00	RES,CHIP	22	5%	1/10W
R736	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R829	1-216-025-91	RES,CHIP	100	5%	1/10W
R737	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R830	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R738	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R831	1-216-079-00	RES,CHIP	18K	5%	1/10W
R739	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R832	1-216-079-00	RES,CHIP	18K	5%	1/10W
R740	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R833	1-216-049-91	RES,CHIP	1K	5%	1/10W
R741	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R834	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R742	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R835	1-216-073-00	RES,CHIP	10K	5%	1/10W
R743	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R836	1-216-045-00	RES,CHIP	680	5%	1/10W
R744	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R837	1-216-045-00	RES,CHIP	680	5%	1/10W
R745	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R838	1-216-045-00	RES,CHIP	680	5%	1/10W
R746	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R839	1-216-045-00	RES,CHIP	680	5%	1/10W
R747	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R840	1-216-045-00	RES,CHIP	680	5%	1/10W
R748	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R841	1-216-045-00	RES,CHIP	680	5%	1/10W
R749	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R842	1-216-045-00	RES,CHIP	680	5%	1/10W
R750	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R843	1-216-045-00	RES,CHIP	680	5%	1/10W
R751	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R844	1-216-045-00	RES,CHIP	680	5%	1/10W
R752	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R845	1-216-045-00	RES,CHIP	680	5%	1/10W
R753	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R846	1-216-045-00	RES,CHIP	680	5%	1/10W
R754	1-216-073-00	RES,CHIP	10K	5%	1/10W	R847	1-216-045-00	RES,CHIP	680	5%	1/10W
R755	1-216-049-91	RES,CHIP	1K	5%	1/10W	R848	1-216-045-00	RES,CHIP	680	5%	1/10W
R756	1-216-049-91	RES,CHIP	1K	5%	1/10W	R849	1-216-045-00	RES,CHIP	680	5%	1/10W
R757	1-216-033-00	RES,CHIP	220	5%	1/10W	R850	1-216-045-00	RES,CHIP	680	5%	1/10W
R758	1-216-033-00	RES,CHIP	220	5%	1/10W	R851	1-216-045-00	RES,CHIP	680	5%	1/10W
R759	1-216-045-00	RES,CHIP	680	5%	1/10W	R852	1-216-045-00	RES,CHIP	680	5%	1/10W

Rf.NO.	PART NO.	DESCRIPTION		REMARK
R853	1-216-045-00	RES,CHIP	680	5% 1/10W
R854	1-216-045-00	RES,CHIP	680	5% 1/10W
R855	1-216-045-00	RES,CHIP	680	5% 1/10W
R856	1-216-045-00	RES,CHIP	680	5% 1/10W
R857	1-216-045-00	RES,CHIP	680	5% 1/10W
R858	1-216-045-00	RES,CHIP	680	5% 1/10W
R859	1-216-045-00	RES,CHIP	680	5% 1/10W
R860	1-216-045-00	RES,CHIP	680	5% 1/10W
R861	1-216-045-00	RES,CHIP	680	5% 1/10W
R862	1-216-045-00	RES,CHIP	680	5% 1/10W
R863	1-216-045-00	RES,CHIP	680	5% 1/10W
R871	1-216-341-11	METAL OXIDE	0.22	5% 1W F
R872	1-216-341-11	METAL OXIDE	0.22	5% 1W F
R931	1-216-121-91	RES,CHIP	1M	5% 1/10W
R932	1-216-637-11	METAL CHIP	270	0.50% 1/10W
R933	1-216-619-11	METAL CHIP	47	0.50% 1/10W
R934	1-216-637-11	METAL CHIP	270	0.50% 1/10W
R935	1-216-637-11	METAL CHIP	270	0.50% 1/10W
R936	1-216-685-11	METAL CHIP	27K	0.50% 1/10W
R937	1-216-295-91	SHORT	0	
R938	1-216-686-11	METAL CHIP	30K	0.50% 1/10W
R939	1-216-679-11	METAL CHIP	15K	0.50% 1/10W
R975	1-216-295-91	SHORT	0	
R976	1-216-295-91	SHORT	0	
R1001	1-216-077-00	RES,CHIP	15K	5% 1/10W
R1002	1-216-079-00	RES,CHIP	18K	5% 1/10W
R1003	1-216-001-00	RES,CHIP	10	5% 1/10W
R1004	1-216-055-00	RES,CHIP	1.8K	5% 1/10W
R1005	1-216-043-91	RES,CHIP	560	5% 1/10W
R1006	1-216-001-00	RES,CHIP	10	5% 1/10W
R1007	1-216-067-00	RES,CHIP	5.6K	5% 1/10W
R1008	1-216-055-00	RES,CHIP	1.8K	5% 1/10W
R1009	1-216-051-00	RES,CHIP	1.2K	5% 1/10W
R1010	1-216-045-00	RES,CHIP	680	5% 1/10W
R1011	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1012	1-216-025-91	RES,CHIP	100	5% 1/10W
R1013	1-216-061-00	RES,CHIP	3.3K	5% 1/10W
R1014	1-216-041-00	RES,CHIP	470	5% 1/10W
R1015	1-216-077-00	RES,CHIP	15K	5% 1/10W
R1016	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1017	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1018	1-216-653-11	METAL CHIP	1.2K	0.50% 1/10W
R1019	1-216-025-91	RES,CHIP	100	5% 1/10W
R1020	1-216-029-00	RES,CHIP	150	5% 1/10W
R1021	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1022	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1023	1-216-063-91	RES,CHIP	3.9K	5% 1/10W
R1024	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1025	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1026	1-216-017-91	RES,CHIP	47	5% 1/10W
R1027	1-216-081-00	RES,CHIP	22K	5% 1/10W
R1028	1-216-023-00	RES,CHIP	82	5% 1/10W
R1029	1-216-023-00	RES,CHIP	82	5% 1/10W
R1030	1-216-023-00	RES,CHIP	82	5% 1/10W
R1031	1-216-663-11	METAL CHIP	3.3K	0.50% 1/10W
R1032	1-216-650-11	METAL CHIP	910	0.50% 1/10W
R1033	1-216-633-11	METAL CHIP	180	0.50% 1/10W
R1034	1-216-664-11	METAL CHIP	3.6K	0.50% 1/10W
R1035	1-216-663-11	METAL CHIP	3.3K	0.50% 1/10W

Rf.NO.	PART NO.	DESCRIPTION		REMARK
R1036	1-216-650-11	METAL CHIP	910	0.50% 1/10W
R1037	1-216-664-11	METAL CHIP	3.6K	0.50% 1/10W
R1038	1-216-627-11	METAL CHIP	100	0.50% 1/10W
R1039	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R1040	1-216-663-11	METAL CHIP	3.3K	0.50% 1/10W
R1041	1-216-295-91	SHORT	0	
R1042	1-216-634-11	METAL CHIP	200	0.50% 1/10W
R1043	1-216-656-11	METAL CHIP	1.6K	0.50% 1/10W
R1044	1-216-634-11	METAL CHIP	200	0.50% 1/10W
R1045	1-216-025-91	RES,CHIP	100	5% 1/10W
R1046	1-216-295-91	SHORT	0	
R1047	1-216-017-91	RES,CHIP	47	5% 1/10W
R1048	1-216-664-11	METAL CHIP	3.6K	0.50% 1/10W
R1049	1-216-650-11	METAL CHIP	910	0.50% 1/10W
R1050	1-216-077-00	RES,CHIP	15K	5% 1/10W
R1051	1-216-075-00	RES,CHIP	12K	5% 1/10W
R1052	1-216-059-00	RES,CHIP	2.7K	5% 1/10W
R1053	1-216-043-91	RES,CHIP	560	5% 1/10W
R1054	1-216-067-00	RES,CHIP	5.6K	5% 1/10W
R1055	1-216-041-00	RES,CHIP	470	5% 1/10W
R1056	1-216-039-00	RES,CHIP	390	5% 1/10W
R1057	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1058	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1059	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1060	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1061	1-216-079-00	RES,CHIP	18K	5% 1/10W
R1062	1-216-025-91	RES,CHIP	100	5% 1/10W
R1063	1-216-017-91	RES,CHIP	47	5% 1/10W
R1064	1-216-061-00	RES,CHIP	3.3K	5% 1/10W
R1065	1-216-077-00	RES,CHIP	15K	5% 1/10W
R1066	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1067	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1068	1-216-043-91	RES,CHIP	560	5% 1/10W
R1069	1-216-067-00	RES,CHIP	5.6K	5% 1/10W
R1070	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1071	1-216-043-91	RES,CHIP	560	5% 1/10W
R1072	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1073	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1074	1-216-073-00	RES,CHIP	10K	5% 1/10W
R1075	1-216-081-00	RES,CHIP	22K	5% 1/10W
R1076	1-216-025-91	RES,CHIP	100	5% 1/10W
R1077	1-216-061-00	RES,CHIP	3.3K	5% 1/10W
R1078	1-216-017-91	RES,CHIP	47	5% 1/10W
R1079	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1080	1-216-295-91	SHORT	0	
R1081	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R1082	1-216-049-91	RES,CHIP	1K	5% 1/10W
R1083	1-216-682-11	METAL CHIP	20K	0.50% 1/10W
R1084	1-216-025-91	RES,CHIP	100	5% 1/10W
R1085	1-216-089-91	RES,CHIP	47K	5% 1/10W
R1086	1-216-033-00	RES,CHIP	220	5% 1/10W
R1089	1-216-133-00	RES,CHIP	3.3M	5% 1/10W
R1090	1-216-057-00	RES,CHIP	2.2K	5% 1/10W
R1091	1-216-644-11	METAL CHIP	510	0.50% 1/10W
R1092	1-216-627-11	METAL CHIP	100	0.50% 1/10W
R1093	1-216-023-00	RES,CHIP	82	5% 1/10W
R1094	1-216-029-00	RES,CHIP	150	5% 1/10W
R1095	1-216-041-00	RES,CHIP	470	5% 1/10W
R1096	1-216-019-00	RES,CHIP	56	5% 1/10W

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R1097	1-216-009-00	RES,CHIP	22	5%	1/10W
R1098	1-216-039-00	RES,CHIP	390	5%	1/10W
R1099	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1100	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1101	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1102	1-216-031-00	RES,CHIP	180	5%	1/10W
R1103	1-216-053-00	RES,CHIP	8.2K	5%	1/10W
R1104	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R1105	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1106	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1107	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1108	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1135	1-216-625-11	METAL CHIP	82	0.50%	1/10W
R1140	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1141	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1142	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1143	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1144	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1145	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1146	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1147	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1148	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1149	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1150	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1151	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1152	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1153	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1154	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1155	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1156	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1157	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1158	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1159	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1160	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1161	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1162	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1163	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1164	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1165	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1166	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1167	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1168	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1169	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1170	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1171	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1175	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1176	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1200	1-216-041-00	RES,CHIP	470	5%	1/10W
R1201	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R1202	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1203	1-216-646-11	METAL CHIP	560	0.50%	1/10W
R1204	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R1205	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R1206	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1207	1-216-025-91	RES,CHIP	100	5%	1/10W
R1211	1-216-095-00	RES,CHIP	82K	5%	1/10W
R1212	1-216-095-00	RES,CHIP	82K	5%	1/10W
R1213	1-216-077-00	RES,CHIP	15K	5%	1/10W
R1214	1-216-077-00	RES,CHIP	15K	5%	1/10W

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R1215	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1216	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1217	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1218	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1219	1-216-689-11	RES,CHIP	39K	5%	1/10W
R1220	1-216-689-11	RES,CHIP	39K	5%	1/10W
R1221	1-216-093-00	RES,CHIP	68K	5%	1/10W
R1222	1-216-689-11	RES,CHIP	39K	5%	1/10W
R1223	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1224	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1225	1-216-682-11	METAL CHIP	20K	0.50%	1/10W
R1226	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1227	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1228	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1229	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1230	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1231	1-216-033-00	RES,CHIP	220	5%	1/10W
R1232	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1233	1-216-001-00	RES,CHIP	10	5%	1/10W
R1239	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1240	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1241	1-216-085-00	RES,CHIP	33K	5%	1/10W

<TEST PIN>

Rf.NO.	PART NO.	DESCRIPTION
TP7	1-535-757-11	CHIP, CHECKER
TP8	1-535-757-11	CHIP, CHECKER
TP10	1-535-757-11	CHIP, CHECKER
TP11	1-535-757-11	CHIP, CHECKER
TP12	1-535-757-11	CHIP, CHECKER
TP13	1-535-757-11	CHIP, CHECKER
TP14	1-535-757-11	CHIP, CHECKER
TP71	1-535-757-11	CHIP, CHECKER
TP72	1-535-757-11	CHIP, CHECKER
TP73	1-535-757-11	CHIP, CHECKER
TP101	1-535-757-11	CHIP, CHECKER
TP102	1-535-757-11	CHIP, CHECKER
TP103	1-535-757-11	CHIP, CHECKER
TP104	1-535-757-11	CHIP, CHECKER
TP105	1-535-757-11	CHIP, CHECKER
TP106	1-535-757-11	CHIP, CHECKER
TP107	1-535-757-11	CHIP, CHECKER
TP109	1-535-757-11	CHIP, CHECKER
TP111	1-535-757-11	CHIP, CHECKER
TP112	1-535-757-11	CHIP, CHECKER
TP200	1-535-757-11	CHIP, CHECKER
TP301	1-535-757-11	CHIP, CHECKER
TP302	1-535-757-11	CHIP, CHECKER
TP303	1-535-757-11	CHIP, CHECKER
TP304	1-535-757-11	CHIP, CHECKER
TP305	1-535-757-11	CHIP, CHECKER
TP306	1-535-757-11	CHIP, CHECKER
TP307	1-535-757-11	CHIP, CHECKER
TP502	1-535-757-11	CHIP, CHECKER
TP503	1-535-757-11	CHIP, CHECKER
TP505	1-535-757-11	CHIP, CHECKER
TP506	1-535-757-11	CHIP, CHECKER
TP701	1-535-757-11	CHIP, CHECKER

Rf.NO.	PART NO.	DESCRIPTION	REMARK
TP702	1-535-757-11	CHIP, CHECKER	
TP703	1-535-757-11	CHIP, CHECKER	
TP704	1-535-757-11	CHIP, CHECKER	
TP705	1-535-757-11	CHIP, CHECKER	
TP706	1-535-757-11	CHIP, CHECKER	
TP707	1-535-757-11	CHIP, CHECKER	
TP708	1-535-757-11	CHIP, CHECKER	
TP709	1-535-757-11	CHIP, CHECKER	
TP710	1-535-757-11	CHIP, CHECKER	
TP711	1-535-757-11	CHIP, CHECKER	
TP1001	1-535-757-11	CHIP, CHECKER	

<CRYSTAL>

X250	1-760-040-11	VIBRATOR, CRYSTAL	
X251	1-527-722-00	VIBRATOR, CRYSTAL	
X301	1-577-611-11	OSCILLATOR, CERAMIC	
X302	1-567-504-11	OSCILLATOR, CRYSTAL	
X303	1-567-505-11	OSCILLATOR, CRYSTAL	
X1001	1-579-057-11	VIBRATOR, CRYSTAL	
X1002	1-527-722-00	VIBRATOR, CRYSTAL	
X1003	1-577-611-11	OSCILLATOR, CERAMIC	
X1004	1-579-583-11	VIBRATOR, CERAMIC	

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* A-1131-325-A B1 BOARD, COMPLETE

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<CAPACITOR>

C1001	1-126-933-11	ELECT	100MF	20%	16V
C1002	1-104-664-11	ELECT	47MF	20%	16V
C1003	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C1004	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1005	1-104-664-11	ELECT	47MF	20%	16V
C1006	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1007	1-104-664-11	ELECT	47MF	20%	16V
C1008	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1009	1-104-664-11	ELECT	47MF	20%	16V

<CONNECTOR>

CN1001	1-774-551-11	CONNECTOR, BOARD TO BOARD 5P	
CN1002	1-774-551-11	CONNECTOR, BOARD TO BOARD 5P	

<DIODE>

D1001	8-719-105-91	DIODE RD5.6M-B2	

<DELAY LINE>

DL1001	1-402-770-11	DELAY LINE	

<TRANSISTOR>

Q1001	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1003	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1004	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1005	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

Rf.NO.	PART NO.	DESCRIPTION	REMARK
Q1006	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1007	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

<RESISTOR>

R1001	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1002	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R1003	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1004	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1005	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W
R1006	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R1007	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1008	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W
R1009	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R1010	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R1011	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1012	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1013	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1014	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1015	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R1016	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R1017	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1018	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1019	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W
R1020	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R1021	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R1022	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R1023	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W

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* A-1294-135-A AI BOARD, COMPLETE

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<CAPACITOR>

C6002	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C6004	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6005	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C6008	1-126-206-11	ELECT CHIP	100MF	20%	6.3V
C6012	1-126-396-11	ELECT CHIP	47MF	20%	16V
C6020	1-126-395-11	ELECT CHIP	22MF	20%	16V
C6021	1-126-395-11	ELECT CHIP	22MF	20%	16V
C6022	1-126-392-11	ELECT CHIP	100MF	20%	6.3V
C6023	1-126-392-11	ELECT CHIP	100MF	20%	6.3V
C6024	1-126-395-11	ELECT CHIP	22MF	20%	16V
C6025	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C6026	1-126-395-11	ELECT CHIP	22MF	20%	16V
C6027	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C6028	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6029	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6030	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6031	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6032	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6033	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6034	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C6035	1-163-031-11	CERAMIC CHIP	0.01MF		50V

<CONNECTOR>

CN6001	1-774-552-11	CONNECTOR, BOARD TO BOARD 10P	

Rf.NO.	PART NO.	DESCRIPTION			REMARK
CN6002	1-506-472-11	PIN, CONNECTOR 7P			
CN6003	1-564-006-71	PIN, CONNECTOR 7P			
CN6004	1-506-484-11	PIN, CONNECTOR 5P			
CN6005	1-774-552-11	CONNECTOR, BOARD TO BOARD 10P			
		<DIODE>			
D6001	8-719-404-49	DIODE MA111			
D6002	8-719-404-49	DIODE MA111			
D6003	8-719-404-49	DIODE MA111			
D6004	8-719-404-49	DIODE MA111			
		<IC>			
IC6001	8-759-454-11	IC MC74HC589AFEL			
IC6002	8-759-245-58	IC TC35095AF			
IC6003	8-759-925-60	IC SN74HC14ANS			
IC6004	8-759-032-23	IC MC74HC74AF-T2			
IC6005	8-759-327-60	IC TC7W125FU-TE12R			
		<RESISTOR>			
R6007	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R6008	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R5028	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6029	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6030	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6031	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6035	1-216-025-91	RES,CHIP	100	5%	1/10W
R6036	1-216-025-91	RES,CHIP	100	5%	1/10W
R6037	1-216-025-91	RES,CHIP	100	5%	1/10W
R6040	1-216-097-91	RES,CHIP	100K	5%	1/10W
R6050	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R6051	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R6052	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6053	1-216-001-00	RES,CHIP	10	5%	1/10W
R6054	1-216-001-00	RES,CHIP	10	5%	1/10W
R6055	1-216-001-00	RES,CHIP	10	5%	1/10W
R6056	1-216-001-00	RES,CHIP	10	5%	1/10W
R6057	1-216-001-00	RES,CHIP	10	5%	1/10W
R6058	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6059	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6060	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6061	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6062	1-216-073-00	RES,CHIP	10K	5%	1/10W
	* A-1294-154-A	AF MOUNT			
		<CAPACITOR>			
C6501	1-126-392-11	ELECT CHIP	100MF	20%	6.3V
C6502	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C6503	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
		<CONNECTOR>			
CN6501	* 1-564-520-11	PLUG, CONNECTOR 5P			
		<IC>			
IC6501	8-759-032-59	IC MC74HC595AF			
IC6502	8-759-032-59	IC MC74HC595AF			

Rf.NO.	PART NO.	DESCRIPTION			REMARK
IC6503	8-719-045-58	DIODE LB-602MA2			
		<RESISTOR>			
R6501	1-216-039-00	RES,CHIP	390	5%	1/10W
R6502	1-216-039-00	RES,CHIP	390	5%	1/10W
R6503	1-216-039-00	RES,CHIP	390	5%	1/10W
R6504	1-216-039-00	RES,CHIP	390	5%	1/10W
R6505	1-216-039-00	RES,CHIP	390	5%	1/10W
R6506	1-216-039-00	RES,CHIP	390	5%	1/10W
R6507	1-216-039-00	RES,CHIP	390	5%	1/10W
R6508	1-216-039-00	RES,CHIP	390	5%	1/10W
R6509	1-216-039-00	RES,CHIP	390	5%	1/10W
R6510	1-216-039-00	RES,CHIP	390	5%	1/10W
R6511	1-216-039-00	RES,CHIP	390	5%	1/10W
R6512	1-216-039-00	RES,CHIP	390	5%	1/10W
R6513	1-216-039-00	RES,CHIP	390	5%	1/10W
R6514	1-216-039-00	RES,CHIP	390	5%	1/10W
R6515	1-216-039-00	RES,CHIP	390	5%	1/10W
R6516	1-216-039-00	RES,CHIP	390	5%	1/10W

* A-1311-644-A G1 BOARD, COMPLETE

		<CONNECTOR>	
CN5001	1-506-488-11	PIN, CONNECTOR 9P	
CN5002	1-506-483-21	PIN, CONNECTOR 4P	
CN5003	1-506-482-11	PIN, CONNECTOR 3P	
CN5004	1-506-494-11	PIN, CONNECTOR 15P	
CN5005	1-506-484-11	PIN, CONNECTOR 5P	
CN5006*	1-785-108-11	PIN, CONNECTOR (PC BOARD) 40P	

* A-1311-645-A G2 BOARD, COMPLETE

		<CONNECTOR>	
CN4001	1-564-517-11	PLUG, CONNECTOR 2P	
CN4002	1-564-519-11	PLUG, CONNECTOR 4P	
CN4003	1-564-524-11	PLUG, CONNECTOR 9P	
CN4004	1-564-519-11	PLUG, CONNECTOR 4P	
CN4005	1-564-519-11	PLUG, CONNECTOR 4P	
CN4006*	1-564-594-11	PLUG, CONNECTOR 15P	
CN4007*	1-785-109-11	SOCKET, CONNECTOR 40P	
CN4008*	1-564-520-11	PLUG, CONNECTOR 5P	

* A-1372-452-A H2 BOARD, COMPLETE

1-923-501-99 WIRE UL1061 AWG26 30MM RED

		<CAPACITOR>			
C801	1-126-396-11	ELECT CHIP	47MF	20%	16V
C802	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C803	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C804	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C805	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C806	1-126-391-11	ELECT CHIP	47MF	20%	6.3V

Rf.NO.	PART NO.	DESCRIPTION			REMARK	Rf.NO.	PART NO.	DESCRIPTION			REMARK
C807	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		D876	8-719-404-49	DIODE MA111			
C808	1-126-391-11	ELECT CHIP 47MF	20%	6.3V		D877	8-719-404-49	DIODE MA111			
C809	1-126-391-11	ELECT CHIP 47MF	20%	6.3V		D878	8-719-404-49	DIODE MA111			
C850	1-126-392-11	ELECT CHIP 100MF	20%	6.3V		D879	8-719-404-49	DIODE MA111			
C851	1-126-392-11	ELECT CHIP 47MF	20%	16V		D880	8-719-404-49	DIODE MA111			
C871	1-126-392-11	ELECT CHIP 100MF	20%	6.3V		D881	8-719-404-49	DIODE MA111			
C872	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		D882	8-719-404-49	DIODE MA111			
C873	1-126-396-11	ELECT CHIP 47MF	20%	16V		D898	8-719-404-49	DIODE MA111			
C874	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V		D899	8-719-404-49	DIODE MA111			
C875	1-163-037-11	CERAMIC CHIP 0.022MF	10%	50V							
C876	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V				<IC>			
C877	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V							
C878	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		IC801	8-759-168-19	IC TA78L09F-TE12L			
C881	1-126-391-11	ELECT CHIP 47MF	20%	6.3V		IC802	8-759-358-46	IC MM1114XFBE			
						IC803	8-759-358-46	IC MM1114XFBE			
C882	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		IC871	8-759-467-84	IC MC68HC05P6SC442119B			
C883	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V		IC872	8-759-058-62	IC TC7S08FU(TE85R)			
						IC873	8-759-058-62	IC TC7S08FU(TE85R)			
		<CONNECTOR>									
								<COIL>			
CN801	1-506-480-11	PIN, CONNECTOR 15P									
CN802	1-506-472-11	PIN, CONNECTOR 7P				L801	1-414-042-21	INDUCTOR 18UH			
CN803	1-774-552-11	CONNECTOR, BOARD TO BOARD 10P				L871	1-408-615-31	INDUCTOR 100UH			
CN804	1-774-553-11	CONNECTOR, BOARD TO BOARD 15P				L872	1-410-682-31	INDUCTOR 470UH			
CN807	1-506-468-11	PIN, CONNECTOR 3P									
CN808	1-506-473-11	PIN, CONNECTOR 8P						<TRANSISTOR>			
CN809	*1-563-865-21	SOCKET, CONNECTOR 30P									
CN810	*1-563-865-21	SOCKET, CONNECTOR 30P				Q850	8-729-027-38	TRANSISTOR DTA144EKA-T146			
CN811	*1-563-865-21	SOCKET, CONNECTOR 30P				Q851	1-801-806-11	TRANSISTOR DTC144EKA-T146			
CN812	1-774-553-11	CONNECTOR, BOARD TO BOARD 15P				Q852	8-729-027-38	TRANSISTOR DTA144EKA-T146			
						Q853	1-801-806-11	TRANSISTOR DTC144EKA-T146			
CN813	1-774-553-11	CONNECTOR, BOARD TO BOARD 15P				Q871	1-801-806-11	TRANSISTOR DTC144EKA-T146			
CN814	1-774-553-11	CONNECTOR, BOARD TO BOARD 15P									
CN815	1-506-469-11	PIN, CONNECTOR 4P				Q872	8-729-901-98	TRANSISTOR 2SA1036K-R			
CN816	*1-564-005-11	PIN, CONNECTOR 6P				Q873	8-729-901-98	TRANSISTOR 2SA1036K-R			
CN871	1-506-468-11	PIN, CONNECTOR 3P				Q874	1-801-806-11	TRANSISTOR DTC144EKA-T146			
CN873	1-506-475-11	PIN, CONNECTOR 10P				Q875	1-801-806-11	TRANSISTOR DTC144EKA-T146			
						Q876	1-801-806-11	TRANSISTOR DTC144EKA-T146			
		<DIODE>				Q877	1-801-806-11	TRANSISTOR DTC144EKA-T146			
						Q878	8-729-901-04	TRANSISTOR DTA114EK			
D801	8-719-404-49	DIODE MA111				Q879	1-801-806-11	TRANSISTOR DTC144EKA-T146			
D802	8-719-404-49	DIODE MA111									
D803	8-719-158-15	DIODE RD5.6SB						<RESISTOR>			
D804	8-719-158-15	DIODE RD5.6SB									
D805	8-719-158-15	DIODE RD5.6SB				R801	1-216-033-00	RES,CHIP 220	5%	1/10W	
						R802	1-216-655-11	METAL CHIP 1.5K	0.50%	1/10W	
D806	8-719-158-15	DIODE RD5.6SB				R803	1-216-033-00	RES,CHIP 220	5%	1/10W	
D807	8-719-158-15	DIODE RD5.6SB				R804	1-216-655-11	METAL CHIP 1.5K	0.50%	1/10W	
D808	8-719-158-15	DIODE RD5.6SB				R805	1-249-429-11	CARBON 10K	5%	1/4W	
D809	8-719-158-15	DIODE RD5.6SB									
D810	8-719-158-15	DIODE RD5.6SB				R850	1-216-049-91	RES,CHIP 1K	5%	1/10W	
						R851	1-216-089-91	RES,CHIP 47K	5%	1/10W	
D811	8-719-158-15	DIODE RD5.6SB				R852	1-216-049-91	RES,CHIP 1K	5%	1/10W	
D812	8-719-158-15	DIODE RD5.6SB				R853	1-249-381-11	CARBON 1	5%	1/4W F	
D850	8-719-978-04	DIODE DTZ-TT11-3.3B				R871	1-216-294-00	RES,CHIP 10M	5%	1/8W	
D851	8-719-978-04	DIODE DTZ-TT11-3.3B									
D852	8-719-404-49	DIODE MA111				R872	1-216-049-91	RES,CHIP 1K	5%	1/10W	
						R873	1-216-065-91	RES,CHIP 4.7K	5%	1/10W	
D853	8-719-404-49	DIODE MA111				R874	1-216-073-00	RES,CHIP 10K	5%	1/10W	
D871	8-719-404-49	DIODE MA111				R875	1-216-073-00	RES,CHIP 10K	5%	1/10W	
D872	8-719-404-49	DIODE MA111				R876	1-216-065-91	RES,CHIP 4.7K	5%	1/10W	
D873	8-719-404-49	DIODE MA111									
D874	8-719-404-49	DIODE MA111				R877	1-216-097-91	RES,CHIP 100K	5%	1/10W	
D875	8-719-404-49	DIODE MA111				R878	1-216-009-00	RES,CHIP 22	5%	1/10W	

Rf.NO.	PART NO.	DESCRIPTION		REMARK			Rf.NO.	PART NO.	DESCRIPTION		REMARK	
R879	1-216-005-00	RES,CHIP	15	5%	1/10W		C111	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
R880	1-216-009-00	RES,CHIP	22	5%	1/10W		C112	1-107-701-11	ELECT	47MF	20%	16V
R881	1-216-009-00	RES,CHIP	22	5%	1/10W		C113	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
							C114	1-107-701-11	ELECT	47MF	20%	16V
R882	1-216-009-00	RES,CHIP	22	5%	1/10W		C115	1-107-701-11	ELECT	47MF	20%	16V
R883	1-216-009-00	RES,CHIP	22	5%	1/10W							
R884	1-216-089-91	RES,CHIP	47K	5%	1/10W		C116	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
R885	1-216-073-00	RES,CHIP	10K	5%	1/10W		C117	1-107-701-11	ELECT	47MF	20%	16V
R886	1-216-073-00	RES,CHIP	10K	5%	1/10W		C118	1-107-701-11	ELECT	47MF	20%	16V
							C119	1-107-701-11	ELECT	47MF	20%	16V
R887	1-216-089-91	RES,CHIP	47K	5%	1/10W		C120	1-128-526-11	ELECT	100MF	20%	16V
R888	1-216-073-00	RES,CHIP	10K	5%	1/10W							
R889	1-216-037-00	RES,CHIP	330	5%	1/10W		C121	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
R895	1-216-049-91	RES,CHIP	1K	5%	1/10W		C122	1-107-701-11	ELECT	47MF	20%	16V
R896	1-216-049-91	RES,CHIP	1K	5%	1/10W		C123	1-107-701-11	ELECT	47MF	20%	16V
							C124	1-107-701-11	ELECT	47MF	20%	16V
R897	1-216-049-91	RES,CHIP	1K	5%	1/10W		C125	1-107-701-11	ELECT	47MF	20%	16V
R898	1-216-049-91	RES,CHIP	1K	5%	1/10W							
R899	1-216-295-91	SHORT	0				C126	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
							C127	1-107-701-11	ELECT	47MF	20%	16V
							C128	1-107-716-11	ELECT	33MF	20%	16V
	<CRYSTAL>						C129	1-107-716-11	ELECT	33MF	20%	16V
							C130	1-107-716-11	ELECT	33MF	20%	16V
X871	1-577-358-21	VIBRATOR, CERAMIC										
							C131	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
	* A-1372-453-A	H6 BOARD, COMPLETE					C132	1-128-526-11	ELECT	100MF	20%	16V
							C133	1-128-526-11	ELECT	100MF	20%	16V
							C134	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
	<CONNECTOR>						C135	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
							C136	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
CN701	1-506-468-11	PIN, CONNECTOR 3P					C137	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
CN702	1-506-473-11	PIN, CONNECTOR 8P					C138	1-104-664-11	ELECT	47MF	20%	16V
CN703	1-506-475-11	PIN, CONNECTOR 10P					C139	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
CN708	1-506-472-11	PIN, CONNECTOR 7P					C140	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
CN709	1-506-474-11	PIN, CONNECTOR 9P										
							C141	1-126-933-11	ELECT	100MF	20%	16V
CN710	* 1-564-005-11	PIN, CONNECTOR 6P					C142	1-126-933-11	ELECT	100MF	20%	16V
	* A-1372-454-A	H5 MOUNT					C143	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
							C144	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
							C145	1-104-664-11	ELECT	47MF	20%	16V
	<CONNECTOR>						C146	1-163-253-11	CERAMIC CHIP	120PF	5%	50V
CN201	1-774-525-11	SOCKET, CONNECTOR 64P					C147	1-163-253-11	CERAMIC CHIP	120PF	5%	50V
CN202	1-774-525-11	SOCKET, CONNECTOR 64P					C148	1-163-253-11	CERAMIC CHIP	120PF	5%	50V
CN203	1-569-922-11	SOCKET, CONNECTOR 30P					C181	1-136-177-00	FILM	1MF	5%	50V
CN204	1-569-922-11	SOCKET, CONNECTOR 30P					C182	1-136-177-00	FILM	1MF	5%	50V
CN205	1-569-922-11	SOCKET, CONNECTOR 30P										
CN206	1-506-485-11	PIN, CONNECTOR 6P					C183	1-136-177-00	FILM	1MF	5%	50V
CN207	1-506-485-11	PIN, CONNECTOR 6P					C184	1-136-177-00	FILM	1MF	5%	50V
							C187	1-104-665-11	ELECT	100MF	20%	10V
							C191	1-136-177-00	FILM	1MF	5%	50V
	* A-1372-455-A	H1 BOARD, COMPLETE					C192	1-136-177-00	FILM	1MF	5%	50V
							C193	1-136-177-00	FILM	1MF	5%	50V
	<CAPACITOR>						C194	1-136-177-00	FILM	1MF	5%	50V
C101	1-128-526-11	ELECT	100MF	20%	16V							
C102	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V			<CONNECTOR>				
C103	1-107-701-11	ELECT	47MF	20%	16V		CN101	* 1-564-011-11	PIN, CONNECTOR 12P			
C104	1-107-701-11	ELECT	47MF	20%	16V		CN102	1-506-473-11	PIN, CONNECTOR 8P			
C105	1-128-526-11	ELECT	100MF	20%	16V		CN103	* 1-564-005-11	PIN, CONNECTOR 6P			
							CN104	1-774-523-11	PIN, CONNECTOR (PC BOARD) 64P			
C106	1-163-113-00	CERAMIC CHIP	68PF	5%	50V		CN105	1-506-472-11	PIN, CONNECTOR 7P			
C107	1-107-701-11	ELECT	47MF	20%	16V							
C108	1-107-701-11	ELECT	47MF	20%	16V			<DIODE>				
C109	1-107-701-11	ELECT	47MF	20%	16V							
C110	1-107-701-11	ELECT	47MF	20%	16V		D101	8-719-105-91	DIODE RD5.6M-B2			

H1

Rf.NO.	PART NO.	DESCRIPTION	REMARK
D102	8-719-105-91	DIODE RD5.6M-B2	
D103	8-719-105-91	DIODE RD5.6M-B2	
D104	8-719-105-91	DIODE RD5.6M-B2	
D181	8-719-404-49	DIODE MA111	
D182	8-719-404-49	DIODE MA111	
D183	8-719-404-49	DIODE MA111	
D191	8-719-404-49	DIODE MA111	
D192	8-719-404-49	DIODE MA111	
D193	8-719-404-49	DIODE MA111	
		<IC>	
IC101	8-759-360-07	IC BA7657F-E2	
IC102	8-759-383-61	IC TL026CPS-E05	
IC103	8-759-383-61	IC TL026CPS-E05	
IC104	8-759-970-89	IC BA10358F	
IC105	8-759-390-38	IC UPC24M12AHF	
		<CHIP CONDUCTOR>	
JR102	1-216-295-91	SHORT 0	
		<COIL>	
L101	1-408-615-31	INDUCTOR 100UH	
		<TRANSISTOR>	
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q102	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q103	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q104	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q105	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q106	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q107	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q108	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q109	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q110	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q111	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q112	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q113	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q114	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q181	8-729-216-22	TRANSISTOR 2SA1162-G	
Q182	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q191	8-729-216-22	TRANSISTOR 2SA1162-G	
Q192	1-801-806-11	TRANSISTOR DTC144EKA-T146	
		<RESISTOR>	
R101	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R102	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
R103	1-216-649-11	METAL CHIP 820	0.50% 1/10W
R104	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R105	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R106	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R107	1-216-639-11	METAL CHIP 330	0.50% 1/10W
R108	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R109	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R110	1-216-639-11	METAL CHIP 330	0.50% 1/10W
R111	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W

Rf.NO.	PART NO.	DESCRIPTION	REMARK
R112	1-216-659-11	METAL CHIP 5.6K	0.50% 1/10W
R113	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R114	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R115	1-216-609-11	METAL CHIP 18	0.50% 1/10W
R116	1-216-637-11	METAL CHIP 270	0.50% 1/10W
R117	1-216-619-11	METAL CHIP 47	0.50% 1/10W
R118	1-216-641-11	METAL CHIP 390	0.50% 1/10W
R119	1-216-645-11	METAL CHIP 560	0.50% 1/10W
R120	1-216-643-11	METAL CHIP 470	0.50% 1/10W
R121	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R122	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
R123	1-216-657-11	METAL CHIP 1.8K	0.50% 1/10W
R124	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R125	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
R126	1-216-649-11	METAL CHIP 820	0.50% 1/10W
R127	1-216-633-11	METAL CHIP 180	0.50% 1/10W
R128	1-216-649-11	METAL CHIP 820	0.50% 1/10W
R129	1-216-619-11	METAL CHIP 47	0.50% 1/10W
R130	1-216-641-11	METAL CHIP 390	0.50% 1/10W
R131	1-216-637-11	METAL CHIP 270	0.50% 1/10W
R132	1-216-659-11	METAL CHIP 2.2K	0.50% 1/10W
R133	1-216-645-11	METAL CHIP 560	0.50% 1/10W
R134	1-216-643-11	METAL CHIP 470	0.50% 1/10W
R135	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R136	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
R137	1-216-657-11	METAL CHIP 1.8K	0.50% 1/10W
R138	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R139	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
R140	1-216-649-11	METAL CHIP 820	0.50% 1/10W
R141	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R142	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R143	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R144	1-216-639-11	METAL CHIP 330	0.50% 1/10W
R145	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R146	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R147	1-216-639-11	METAL CHIP 330	0.50% 1/10W
R148	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
R149	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
R150	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R151	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R152	1-216-619-11	METAL CHIP 47	0.50% 1/10W
R153	1-216-641-11	METAL CHIP 390	0.50% 1/10W
R154	1-216-295-91	SHORT 0	
R155	1-216-637-11	METAL CHIP 270	0.50% 1/10W
R156	1-216-645-11	METAL CHIP 560	0.50% 1/10W
R157	1-216-643-11	METAL CHIP 470	0.50% 1/10W
R158	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R159	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
R160	1-216-657-11	METAL CHIP 1.8K	0.50% 1/10W
R161	1-218-776-11	METAL CHIP 1M	0.50% 1/10W
R162	1-218-776-11	METAL CHIP 1M	0.50% 1/10W
R163	1-218-776-11	METAL CHIP 1M	0.50% 1/10W
R164	1-216-627-11	METAL CHIP 100	0.50% 1/10W
R165	1-216-627-11	METAL CHIP 100	0.50% 1/10W
R166	1-216-619-11	METAL CHIP 47	0.50% 1/10W
R167	1-216-619-11	METAL CHIP 47	0.50% 1/10W
R168	1-216-619-11	METAL CHIP 47	0.50% 1/10W
R169	1-216-631-11	METAL CHIP 150	0.50% 1/10W
R170	1-216-631-11	METAL CHIP 150	0.50% 1/10W

Rf.NO.	PART NO.	DESCRIPTION		REMARK			Rf.NO.	PART NO.	DESCRIPTION		REMARK		
R171	1-216-631-11	METAL CHIP	150	0.50% 1/10W			J1103	1-695-605-11	JACK, MINIATURE				
R172	1-216-675-11	METAL CHIP	10K	0.50% 1/10W									
R173	1-216-675-11	METAL CHIP	10K	0.50% 1/10W					<COIL>				
R174	1-216-681-11	METAL CHIP	18K	0.50% 1/10W									
R175	1-216-657-11	METAL CHIP	1.8K	0.50% 1/10W			L1101	1-422-613-11	COIL, AIR CORE				
							L1102	1-422-613-11	COIL, AIR CORE				
R176	1-216-669-11	METAL CHIP	5.6K	0.50% 1/10W			L1103	1-422-613-11	COIL, AIR CORE				
R177	1-216-675-11	METAL CHIP	10K	0.50% 1/10W			L1104	1-422-613-11	COIL, AIR CORE				
R178	1-216-675-11	METAL CHIP	10K	0.50% 1/10W									
R179	1-216-675-11	METAL CHIP	10K	0.50% 1/10W									
R180	1-216-677-11	METAL CHIP	12K	0.50% 1/10W					<TRANSISTOR>				
R181	1-216-651-11	METAL CHIP	1K	0.50% 1/10W			Q1101	8-729-901-06	TRANSISTOR DTA144EK				
R182	1-216-619-11	METAL CHIP	47	0.50% 1/10W			Q1102	1-801-806-11	TRANSISTOR DTC144EK-T146				
R183	1-216-629-11	METAL CHIP	120	0.50% 1/10W			Q1103	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
R184	1-216-629-11	METAL CHIP	120	0.50% 1/10W									
R185	1-216-629-11	METAL CHIP	120	0.50% 1/10W					<RESISTOR>				
R188	1-216-081-00	RES,CHIP	22K	5% 1/10W			R1101	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R191	1-216-699-11	METAL CHIP	100K	0.50% 1/10W			R1102	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R192	1-216-683-11	METAL CHIP	56K	0.50% 1/10W			R1103	1-216-025-91	RES,CHIP	100	5%	1/10W	
R193	1-216-695-11	METAL CHIP	68K	0.50% 1/10W			R1104	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R194	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W			R1105	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R195	1-216-651-11	METAL CHIP	1K	0.50% 1/10W			R1106	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R196	1-216-651-11	METAL CHIP	1K	0.50% 1/10W			R1107	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R197	1-216-679-11	METAL CHIP	15K	0.50% 1/10W			R1108	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R201	1-216-699-11	METAL CHIP	100K	0.50% 1/10W			R1111	1-216-025-91	RES,CHIP	100	5%	1/10W	
R202	1-216-683-11	METAL CHIP	56K	0.50% 1/10W			R1112	1-216-025-91	RES,CHIP	100	5%	1/10W	
R203	1-216-695-11	METAL CHIP	68K	0.50% 1/10W					<TERMINAL BOARD>				
R204	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W									
R205	1-216-651-11	METAL CHIP	1K	0.50% 1/10W			TB1101	1-537-187-11	TERMINAL, PUSH (4P)				
R206	1-216-651-11	METAL CHIP	1K	0.50% 1/10W									
R207	1-216-679-11	METAL CHIP	15K	0.50% 1/10W									

* A-1373-670-A   UA BOARD, COMPLETE

* A-1373-671-A   UJ BOARD, COMPLETE

<CAPACITOR>

C1101	1-126-382-11	ELECT	100MF	20%	6.3V
C1102	1-163-031-11	CERAMIC CHIP	0.01MF		50V

<CONNECTOR>

CN1101	* 1-564-519-11	PLUG, CONNECTOR 4P
CN1102	1-564-524-11	PLUG, CONNECTOR 9P

<DIODE>

D1101	8-719-110-17	DIODE RD10ESB2
D1102	8-719-110-17	DIODE RD10ESB2
D1103	8-719-404-49	DIODE MA111
D1111	8-719-150-92	DIODE RD33EB3T
D1112	8-719-150-92	DIODE RD33EB3T
D1113	8-719-150-92	DIODE RD33EB3T
D1114	8-719-150-92	DIODE RD33EB3T
D1115	8-719-110-17	DIODE RD10ESB2
D1116	8-719-110-17	DIODE RD10ESB2

<JACK>

J1101	1-573-969-11	JACK BLOCK, PIN
J1102	1-695-605-11	JACK, MINIATURE

<CAPACITOR>

C901	1-126-786-11	ELECT	47MF	20%	16V
C902	1-126-786-11	ELECT	47MF	20%	16V
C903	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C904	1-126-791-11	ELECT	10MF	20%	16V
C905	1-126-791-11	ELECT	10MF	20%	16V
C921	1-126-786-11	ELECT	47MF	20%	16V
C922	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C923	1-126-786-11	ELECT	47MF	20%	16V
C924	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C925	1-126-786-11	ELECT	47MF	20%	16V
C926	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C927	1-107-714-11	ELECT	10MF	20%	16V
C928	1-107-701-11	ELECT	47MF	20%	16V
C929	1-126-791-11	ELECT	10MF	20%	16V
C930	1-126-791-11	ELECT	10MF	20%	16V
C931	1-126-786-11	ELECT	47MF	20%	16V
C932	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C933	1-126-786-11	ELECT	47MF	20%	16V
C934	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C935	1-126-786-11	ELECT	47MF	20%	16V
C936	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C937	1-107-714-11	ELECT	10MF	20%	16V
C938	1-107-701-11	ELECT	47MF	20%	16V

Rf.NO.	PART NO.	DESCRIPTION			REMARK	Rf.NO.	PART NO.	DESCRIPTION			REMARK
C939	1-126-791-11	ELECT	10MF	20%	16V	J903	1-569-578-11	TERMINAL, S (WITH SW)			
C940	1-126-791-11	ELECT	10MF	20%	16V	J905	1-694-452-11	TERMINAL BOARD ASSY, I/O			
C941	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V						
C951	1-165-319-11	CERAMIC CHIP 0.1MF		50V				<TRANSISTOR>			
C952	1-126-786-11	ELECT	47MF	20%	16V						
C953	1-165-319-11	CERAMIC CHIP 0.1MF		50V		Q901	8-729-027-38	TRANSISTOR DTA144EKA-T146			
C971	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	Q902	8-729-027-38	TRANSISTOR DTA144EKA-T146			
						Q903	8-729-027-38	TRANSISTOR DTA144EKA-T146			
C972	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	Q904	1-801-806-11	TRANSISTOR DTC144EKA-T146			
C973	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	Q905	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
C974	1-126-786-11	ELECT	47MF	20%	16V						
C981	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V	Q906	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
C982	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V						
C990	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V			<RESISTOR>			
C991	1-164-004-11	CERAMIC CHIP 0.1MF		10%	25V						
						R901	1-216-295-91	SHORT	0		
						R902	1-216-295-91	SHORT	0		
		<CONNECTOR>				R903	1-216-025-91	RES,CHIP	100	5%	1/10W
						R905	1-215-394-00	METAL	75	1%	1/4W
CN901	1-506-485-11	PIN, CONNECTOR 6P				R906	1-216-624-11	METAL CHIP	75	0.50%	1/10W
CN902	1-506-494-11	PIN, CONNECTOR 15P									
CN903	1-506-491-11	PIN, CONNECTOR 12P				R907	1-216-089-91	RES,CHIP	47K	5%	1/10W
CN905	1-750-628-11	SOCKET, DIN 8P				R909	1-216-089-91	RES,CHIP	47K	5%	1/10W
						R915	1-216-624-11	METAL CHIP	75	0.50%	1/10W
						R916	1-216-624-11	METAL CHIP	75	0.50%	1/10W
		<DIODE>				R917	1-216-624-11	METAL CHIP	75	0.50%	1/10W
D901	8-719-402-16	DIODE MA3100-TX				R918	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
D902	8-719-402-16	DIODE MA3100-TX				R919	1-216-033-00	RES,CHIP	220	5%	1/10W
D903	8-719-402-16	DIODE MA3100-TX				R921	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
D904	8-719-402-16	DIODE MA3100-TX				R922	1-216-033-00	RES,CHIP	220	5%	1/10W
D905	8-719-402-16	DIODE MA3100-TX				R924	1-216-089-91	RES,CHIP	47K	5%	1/10W
D921	8-719-800-76	DIODE 1SS226				R926	1-216-089-91	RES,CHIP	47K	5%	1/10W
D922	8-719-800-76	DIODE 1SS226				R928	1-216-624-11	METAL CHIP	75	0.50%	1/10W
D923	8-719-800-76	DIODE 1SS226				R929	1-216-624-11	METAL CHIP	75	0.50%	1/10W
D926	8-719-402-16	DIODE MA3100-TX				R930	1-216-624-11	METAL CHIP	75	0.50%	1/10W
D927	8-719-402-16	DIODE MA3100-TX				R931	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
D928	8-719-800-76	DIODE 1SS226				R932	1-216-033-00	RES,CHIP	220	5%	1/10W
D929	8-719-800-76	DIODE 1SS226				R934	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
D930	8-719-800-76	DIODE 1SS226				R935	1-216-033-00	RES,CHIP	220	5%	1/10W
D933	8-719-402-16	DIODE MA3100-TX				R937	1-216-089-91	RES,CHIP	47K	5%	1/10W
D934	8-719-402-16	DIODE MA3100-TX				R939	1-216-089-91	RES,CHIP	47K	5%	1/10W
D940	8-719-976-96	DIODE DTZ4.7C				R941	1-216-081-00	RES,CHIP	22K	5%	1/10W
D941	8-719-976-96	DIODE DTZ4.7C				R942	1-216-081-00	RES,CHIP	22K	5%	1/10W
D942	8-719-976-96	DIODE DTZ4.7C				R943	1-216-121-91	RES,CHIP	1M	5%	1/10W
D943	8-719-976-96	DIODE DTZ4.7C				R944	1-216-121-91	RES,CHIP	1M	5%	1/10W
D944	8-719-976-96	DIODE DTZ4.7C				R945	1-216-121-91	RES,CHIP	1M	5%	1/10W
D945	8-719-976-96	DIODE DTZ4.7C				R946	1-216-295-91	SHORT	0		
D946	8-719-976-96	DIODE DTZ4.7C				R947	1-216-295-91	SHORT	0		
D947	8-719-976-96	DIODE DTZ4.7C				R948	1-216-295-91	SHORT	0		
D951	8-719-402-16	DIODE MA3100-TX				R949	1-216-073-00	RES,CHIP	10K	5%	1/10W
D952	8-719-402-16	DIODE MA3100-TX				R950	1-216-073-00	RES,CHIP	10K	5%	1/10W
						R951	1-216-073-00	RES,CHIP	10K	5%	1/10W
		<IC>				R952	1-216-073-00	RES,CHIP	10K	5%	1/10W
						R971	1-216-073-00	RES,CHIP	10K	5%	1/10W
IC903	8-759-446-66	IC MM1113XFBE				R985	1-216-025-91	RES,CHIP	100	5%	1/10W
IC904	8-759-446-66	IC MM1113XFBE				R986	1-216-025-91	RES,CHIP	100	5%	1/10W
IC905	8-759-360-07	IC BA7657F-E2									
IC906	8-759-011-64	IC MC74HC4052F				R987	1-216-295-91	SHORT	0		
						R988	1-216-295-91	SHORT	0		
						R990	1-216-295-91	SHORT	0		
		<JACK>				R991	1-215-394-00	METAL	75	1%	1/4W
						R995	1-216-025-91	RES,CHIP	100	5%	1/10W
J901	1-694-453-11	TERMINAL BOARD ASSY, I/O									

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R996	1-216-025-91	RES,CHIP	100	5%	1/10W

****

* A-1380-574-A K BOARD, COMPLETE

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7-682-949-09 SCREW +PSW 3X10

<CAPACITOR>

Rf.NO.	PART NO.	DESCRIPTION			REMARK
C501	1-104-664-11	ELECT	47MF	20%	16V
C502	1-163-035-00	CERAMIC CHIP	0.047MF	50V	
C503	1-126-394-11	ELECT CHIP	10MF	20%	16V
C504	1-126-394-11	ELECT CHIP	10MF	20%	16V
C505	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C506	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C507	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C508	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C509	1-126-394-11	ELECT CHIP	10MF	20%	16V
C510	1-126-394-11	ELECT CHIP	10MF	20%	16V
C511	1-126-401-11	ELECT CHIP	1MF	20%	50V
C512	1-126-396-11	ELECT CHIP	47MF	20%	16V
C513	1-126-401-11	ELECT CHIP	1MF	20%	50V
C514	1-126-401-11	ELECT CHIP	1MF	20%	50V
C515	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C516	1-126-401-11	ELECT CHIP	1MF	20%	50V
C517	1-126-398-11	ELECT CHIP	4.7MF	20%	35V
C518	1-126-964-11	ELECT	10MF	20%	50V
C519	1-126-964-11	ELECT	10MF	20%	50V
C520	1-126-964-11	ELECT	10MF	20%	50V
C521	1-126-964-11	ELECT	10MF	20%	50V
C522	1-126-953-11	ELECT	2200MF	20%	35V
C523	1-107-909-11	ELECT	47MF	20%	35V
C524	1-126-964-11	ELECT	10MF	20%	50V
C525	1-126-964-11	ELECT	10MF	20%	50V
C526	1-126-947-11	ELECT	47MF	20%	35V
C527	1-126-947-11	ELECT	47MF	20%	35V
C528	1-126-947-11	ELECT	47MF	20%	35V
C529	1-126-953-11	ELECT	2200MF	20%	35V
C530	1-126-953-11	ELECT	2200MF	20%	35V
C531	1-136-165-00	FILM	0.1MF	5%	50V
C532	1-136-165-00	FILM	0.1MF	5%	50V
C533	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C534	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C535	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C536	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C537	1-126-964-11	ELECT	10MF	20%	50V
C538	1-104-664-11	ELECT	47MF	20%	16V
C539	1-104-664-11	ELECT	47MF	20%	16V

<CONNECTOR>

Rf.NO.	PART NO.	DESCRIPTION
CN501	1-506-472-11	PIN, CONNECTOR 7P
CN502	1-506-469-11	PIN, CONNECTOR 4P
CN503	1-506-474-11	PIN, CONNECTOR 9P

<DIODE>

Rf.NO.	PART NO.	DESCRIPTION
D501	8-719-404-49	DIODE MA111
D502	8-719-110-83	DIODE RD36ESB2
D503	8-719-510-48	DIODE D1N20R
D504	8-719-510-48	DIODE D1N20R

<IC>

Rf.NO.	PART NO.	DESCRIPTION
IC501	8-759-346-93	IC TA8184F(EL)
IC502	8-759-168-24	IC TA8200AH

<COIL>

Rf.NO.	PART NO.	DESCRIPTION	
L501	1-408-615-31	INDUCTOR	100UH

<TRANSISTOR>

Rf.NO.	PART NO.	DESCRIPTION
Q501	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q503	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q504	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q505	8-729-120-28	TRANSISTOR 2SC1623-L5L6

<RESISTOR>

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R501	1-216-033-00	RES,CHIP	220	5%	1/10W
R502	1-216-033-00	RES,CHIP	220	5%	1/10W
R503	1-216-049-91	RES,CHIP	1K	5%	1/10W
R504	1-216-081-00	RES,CHIP	22K	5%	1/10W
R505	1-216-097-91	RES,CHIP	100K	5%	1/10W
R506	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R507	1-216-081-00	RES,CHIP	22K	5%	1/10W
R508	1-216-081-00	RES,CHIP	22K	5%	1/10W
R509	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R510	1-216-081-00	RES,CHIP	22K	5%	1/10W
R511	1-216-081-00	RES,CHIP	22K	5%	1/10W
R512	1-216-089-91	RES,CHIP	47K	5%	1/10W
R513	1-216-089-91	RES,CHIP	47K	5%	1/10W
R514	1-216-081-00	RES,CHIP	22K	5%	1/10W
R515	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R516	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R517	1-216-033-00	RES,CHIP	220	5%	1/10W
R518	1-216-033-00	RES,CHIP	220	5%	1/10W
R519	1-216-019-00	RES,CHIP	56	5%	1/10W
R520	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R521	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R522	1-216-019-00	RES,CHIP	56	5%	1/10W
R523	1-216-097-91	RES,CHIP	100K	5%	1/10W
R524	1-249-385-11	CARBON	2.2	5%	1/4W F
R525	1-216-097-91	RES,CHIP	100K	5%	1/10W
R526	1-216-097-91	RES,CHIP	100K	5%	1/10W
R527	1-249-385-11	CARBON	2.2	5%	1/4W F
R528	1-216-081-00	RES,CHIP	22K	5%	1/10W
R529	1-216-081-00	RES,CHIP	22K	5%	1/10W

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* A-1390-878-A S1 BOARD, COMPLETE

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<CAPACITOR>

Rf.NO.	PART NO.	DESCRIPTION			REMARK
C1201	1-126-392-11	ELECT CHIP	100MF	20%	6.3V
C1202	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C1203	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V

S1 H5 AF UJ

Rf.NO.	PART NO.	DESCRIPTION		REMARK	
C1204	1-163-021-91	CERAMIC CHIP 0.01MF	10%	50V	
C1205	1-163-021-91	CERAMIC CHIP 0.01MF	10%	50V	
C1206	1-126-933-11	ELECT	100MF	20%	16V
C1207	1-136-177-00	FILM	1MF	5%	50V
C1208	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C1210	1-163-021-91	CERAMIC CHIP 0.01MF	10%	50V	

<CONNECTOR>

Rf.NO.	PART NO.	DESCRIPTION
CN1201	1-506-472-11	PIN, CONNECTOR 7P
CN1202	1-506-468-11	PIN, CONNECTOR 3P

<IC>

Rf.NO.	PART NO.	DESCRIPTION
IC1201	8-759-947-34	IC LM35DZ
IC1202	8-759-510-71	IC BA10358F-E2
IC1203	8-759-198-31	IC UPC1093J-1-T
IC1204	8-759-981-48	IC TL082M

<RESISTOR>

Rf.NO.	PART NO.	DESCRIPTION			
R1201	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R1202	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R1203	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R1204	1-216-025-91	RES,CHIP	100	5%	1/10W
R1205	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1208	1-218-770-11	METAL CHIP	560K	0.50%	1/10W
R1210	1-216-295-91	SHORT	0		
R1212	1-216-295-91	SHORT	0		

A-1372-454-A H5 BOARD, COMPLETE

< CONNECTOR >

Rf.NO.	PART NO.	DESCRIPTION
CN201	1-774-525-11	SOCKET, CONNECTOR 64P
CN202	1-774-525-11	SOCKET, CONNECTOR 64P
CN203	1-569-922-11	SOCKET, CONNECTOR30P
CN204	1-569-922-11	SOCKET, CONNECTOR30P
CN205	1-569-922-11	SOCKET, CONNECTOR30P
CN206	1-506-485-11	PIN, CONNECTOR 6P
CN207	1-506-485-11	PIN, CONNECTOR 6P

A-1294-154-A AF BOARD, COMPLETE

< CAPACITOR >

Rf.NO.	PART NO.	DESCRIPTION			
C8501	1-126-392-11	ELECT CHIP	100MF	20%	6.3V
C8502	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
C8503	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	

< CONNECTOR >

Rf.NO.	PART NO.	DESCRIPTION
CN6501	1-506-484-11	PIN, CONNECTOR 5P

< IC >

Rf.NO.	PART NO.	DESCRIPTION
IC6501	8-759-032-59	IC MC74HC595AF
IC6502	8-759-032-59	IC MC74HC595AF
IC6503	8-719-045-58	DIODE LB-602MA2

< RESISTOR >

Rf.NO.	PART NO.	DESCRIPTION			
R6501	1-216-039-00	RES, CHIP	390	5%	1/10W
R6502	1-216-039-00	RES, CHIP	390	5%	1/10W
R6503	1-216-039-00	RES, CHIP	390	5%	1/10W
R6504	1-216-039-00	RES, CHIP	390	5%	1/10W
R6505	1-216-039-00	RES, CHIP	390	5%	1/10W
R6506	1-216-039-00	RES, CHIP	390	5%	1/10W
R6507	1-216-039-00	RES, CHIP	390	5%	1/10W
R6508	1-216-039-00	RES, CHIP	390	5%	1/10W
R6509	1-216-039-00	RES, CHIP	390	5%	1/10W
R6510	1-216-039-00	RES, CHIP	390	5%	1/10W
R6511	1-216-039-00	RES, CHIP	390	5%	1/10W
R6512	1-216-039-00	RES, CHIP	390	5%	1/10W
R6513	1-216-039-00	RES, CHIP	390	5%	1/10W
R6514	1-216-039-00	RES, CHIP	390	5%	1/10W
R6515	1-216-039-00	RES, CHIP	390	5%	1/10W
R6516	1-216-039-00	RES, CHIP	390	5%	1/10W

A-1373-671-A UJ BOARD, COMPLETE

< CAPACITOR >

Rf.NO.	PART NO.	DESCRIPTION			
C901	1-126-786-11	ELECT	47MF	20%	16V
C902	1-126-786-11	ELECT	47MF	20%	16V
C903	1-164-232-11	CERAMIC, CHIP 0.01MF	10%	50V	
C904	1-126-791-11	ELECT	10MF	20%	16V
C905	1-126-791-11	ELECT	10MF	20%	16V
C921	1-126-786-11	ELECT	47MF	20%	16V
C922	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V	
C923	1-126-786-11	ELECT	47MF	20%	16V
C924	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V	
C925	1-126-786-11	ELECT	47MF	20%	16V
C926	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V	
C927	1-107-714-11	ELECT	10MF	20%	16V
C928	1-107-701-11	ELECT	47MF	20%	16V
C929	1-126-791-11	ELECT	10MF	20%	16V
C930	1-126-791-11	ELECT	10MF	20%	16V
C931					
C932	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V	
C933	1-126-786-11	ELECT	47MF	20%	16V
C934	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V	
C935	1-126-786-11	ELECT	47MF	20%	16V
C936	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V	
C937	1-107-714-11	ELECT	10MF	20%	16V
C938	1-107-701-11	ELECT	47MF	20%	16V
C939	1-126-791-11	ELECT	10MF	20%	16V
C940	1-126-791-11	ELECT	10MF	20%	16V
C941	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V	
C951	1-165-319-11	CERAMIC, CHIP 0.1MF		50V	
C952	1-126-786-11	ELECT	47MF	20%	16V
C953	1-165-319-11	CERAMIC, CHIP 0.1MF		50V	
C971	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V	
C972	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V	
C973	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V	
C974	1-126-786-11	ELECT	47MF	20%	16V
C981	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V	
C982	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V	

Ref.NO.	PART NO.	DESCRIPTION	REMARK			Ref.NO.	PART NO.	DESCRIPTION			REMARK
C990	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V		R906	1-216-624-11	METAL CHIP	75	0.50%	1/10W
C991	1-164-004-11	CERAMIC, CHIP 0.1MF	10%	25V							
						R907	1-216-089-11	RES, CHIP	47K	5%	1/10W
		< CONNECTOR >				R909	1-216-089-11	RES, CHIP	47K	5%	1/10W
						R915	1-216-624-11	METAL CHIP	75	0.50%	1/10W
CN901	1-506-485-11	PIN, CONNECTOR 6P				R916	1-216-624-11	METAL CHIP	75	0.50%	1/10W
CN902	1-506-494-11	PIN, CONNECTOR 15P				R917	1-216-624-11	METAL CHIP	75	0.50%	1/10W
CN903	1-506-491-11	PIN, CONNECTOR 12P									
CN905	1-750-628-11	SOCKET, DIN 8P				R918	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
						R919	1-216-033-00	RES, CHIP	220	5%	1/10W
		< DIODE >				R921	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
						R922	1-216-033-00	RES, CHIP	220	5%	1/10W
D901	8-719-402-16	DIODE MA3100-TX				R924	1-216-089-91	RES, CHIP	47K	5%	1/10W
D902	8-719-402-16	DIODE MA3100-TX									
D903	8-719-402-16	DIODE MA3100-TX				R926	1-216-089-91	RES, CHIP	47K	5%	1/10W
D904	8-719-402-16	DIODE MA3100-TX				R928	1-216-624-11	METAL CHIP	75	0.50%	1/10W
D905	8-719-402-16	DIODE MA3100-TX				R929	1-216-624-11	METAL CHIP	75	0.50%	1/10W
						R930	1-216-624-11	METAL CHIP	75	0.50%	1/10W
D921	8-719-800-76	DIODE 1SS226				R931	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
D922	8-719-800-76	DIODE 1SS226									
D923	8-719-800-76	DIODE 1SS226				R932	1-216-033-00	RES, CHIP	220	5%	1/10W
D926	8-719-402-16	DIODE MA3100-TX				R934	1-216-057-00	RES, CHIP	2.2K	5%	1/10W
D927	8-719-402-16	DIODE MA3100-TX				R935	1-216-033-00	RES, CHIP	220	5%	1/10W
						R937	1-216-089-91	RES, CHIP	47K	5%	1/10W
D928	8-719-800-76	DIODE 1SS226				R939	1-216-089-91	RES, CHIP	47K	5%	1/10W
D929	8-719-800-76	DIODE 1SS226									
D930	8-719-800-76	DIODE 1SS226				R941	1-216-081-00	RES, CHIP	22K	5%	1/10W
D933	8-719-402-16	DIODE MA3100-TX				R942	1-216-081-00	RES, CHIP	22K	5%	1/10W
D934	8-719-402-16	DIODE MA3100-TX				R943	1-216-121-91	RES, CHIP	1M	5%	1/10W
						R944	1-216-121-91	RES, CHIP	1M	5%	1/10W
D940	8-719-976-96	DIODE DTZ4.7C				R945	1-216-121-91	RES, CHIP	1M	5%	1/10W
D941	8-719-976-96	DIODE DTZ4.7C									
D942	8-719-976-96	DIODE DTZ4.7C				R946	1-216-295-91	SHORT	0		
D943	8-719-976-96	DIODE DTZ4.7C				R947	1-216-295-91	SHORT	0		
D944	8-719-976-96	DIODE DTZ4.7C				R948	1-216-295-91	SHORT	0		
						R949	1-216-073-00	RES, CHIP	10K	5%	1/10W
D945	8-719-976-96	DIODE DTZ4.7C				R950	1-216-073-00	RES, CHIP	10K	5%	1/10W
D946	8-719-976-96	DIODE DTZ4.7C									
D947	8-719-976-96	DIODE DTZ4.7C				R951	1-216-073-00	RES, CHIP	10K	5%	1/10W
D951	8-719-402-16	DIODE MA3100-TX				R952	1-216-073-00	RES, CHIP	10K	5%	1/10W
D952	8-719-402-16	DIODE MA3100-TX				R971	1-216-073-00	RES, CHIP	10K	5%	1/10W
						R985	1-216-025-91	RES, CHIP	100	5%	1/10W
		< IC >				R986	1-216-025-91	RES, CHIP	100	5%	1/10W
IC903	8-759-446-66	IC MM1113XFBE				R987	1-216-295-91	SHORT	0		
IC904	8-759-446-66	IC MM1113XFBE				R988	1-216-295-91	SHORT	0		
IC905	8-759-360-07	IC BA7657F-E2				R990	1-216-295-91	SHORT	0		
IC906	8-759-011-64	IC MC74HC4052F				R991	1-215-394-00	METAL	75	1%	1/4W
						R995					
		< JACK >				R996	1-216-025-91	RES, CHIP	100	5%	1/10W
J901	1-694-453-11	TERMINAL BOARD ASSY, I/O									
J903	1-569-578-11	TERMINAL, S (WITH SW)									
J905	1-694-452-11	TERMINAL BOARD ASSY, I/O						REMOTE COMMANDER			

1-475-089-11 REMOTE COMMANDER (RM-921)
9-900-029-01 BATTERY COVER (FOR RM-921)

Ref.NO.	PART NO.	DESCRIPTION			REMARK
		< TRANSISTOR >			
Q901	8-729-027-38	TRANSISTOR DTA144EKA-T146			
Q902	8-729-027-38	TRANSISTOR DTA144EKA-T146			
Q903	8-729-027-38	TRANSISTOR DTA144EKA-T146			
Q904	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q905	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR			
Q906	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR			
		< RESISTOR >			
R901	1-216-025-91	RES, CHIP	100	5%	1/10W
R902	1-216-025-91	RES, CHIP	100	5%	1/10W
R903	1-216-025-91	RES, CHIP	100	5%	1/10W
R905	1-215-394-00	METAL	75	1%	1/4W

SECTION 8
BLOCK DIAGRAM

UJ
(SIGNAL IN/INPUT SELECT)

H1
(RGB SW)

B(3/4) (FRAME MEMORY)
DIGITAL FILTER

9-1. FRAME SCHEMATIC DIAGRAM

AC INLET

CN2
2P
:YT

CN1
3P
:YH

LIVE 1
NEUTRAL 2

LIVE 1
2
NEUTRAL 3

G
(SWITCHING)
(REGULATOR)

CN4
8P
:YH

1	VCC
2	GND
3	VRS
4	GND
5	VRA
6	GND
7	VRR
8	GND

CN5
7P
:YH

1	GND
2	VS
3	VS
4	VS
5	VA
6	GND
7	GND

CN9003

VCC	1
GND	2
VRS	3
GND	4
VRA	5
GND	6
VRR	7
GND	8

CN9002

GND	1
N.C	2
VS	3
VS	4
VS	5
VA	6
GND	7

CN9001

VCC	1
GND	2
VRS	3
GND	4
VRA	5
GND	6
VRR	7
GND	8

CN9002

GND	1
N.C	2
VS	3
VS	4
VS	5
VA	6
GND	7

CN9005

1	VCC
2	GND
3	GND
4	VRS
5	GND
6	VRA
7	GND
8	VRR
9	GND

CN9004

1	GND
2	N.C
3	VS
4	VS
5	VS
6	N.C
7	VA
8	N.C
9	GND
10	GND

CN8
8P
WHT
:S-MICRO

1	70V_SEN
2	GND
3	180V_SEN
4	GND
5	THERMO1
6	
7	
8	GND

70V_SEN	1
GND	2
180V_SEN	3
GND	4

CN4002
3P
RED
:S-MICRO

CN4001
2P
WHT
:S-MICRO

THERMO1 1
GND 2

CN6
4P
WHT
:S-MICRO

1	AUDIO-
2	AUDIO+
3	AUDIO-B
4	AUDIO+B

CN4004
4P
WHT
:S-MICRO

AUDIO- 1
AUDIO+ 2
AUDIO-B 3
AUDIO+B 4

CN7
15P
WHT
:S-MICRO

1	STBY
2	STBY+5V
3	STBY+5V
4	5V0
5	5V0
6	DGND
7	DGND
8	6V
9	6V
10	GND
11	GND
12	13V
13	13V
14	12V
15	12V

CN4006
15P
WHT
:S-MICRO

STBY	1
STBY+5V	2
STBY+5V	3
5V0	4
5V0	5
DGND	6
DGND	7
6V	8
6V	9
GND	10
GND	11
13V	12
13V	13
12V	14
12V	15

CN4007
40P

A1	GND	A1
B1	THERMO1	B1
A2	0MP-01	A2
B2	0MP-CLK	B2
A3	GND	A3
B3	FALE0-CS	B3
A4	SP.LOUT (+)	A4
B4	GND	B4
A5	GND	A5
B5	SP.LOUT (-)	B5
A6	SP.ROUT (-)	A6
B6	SP.ROUT (+)	B6
A7	MON.LOUT	A7
B7	GND	B7
A8	MON.ROUT	A8
B8	GND	B8
A9	AUDIO+B	A9
B9	AUDIO+B	B9
A10	AUDIO-	A10
B10	AUDIO-	B10
A11	SIRCS (IN)	A11
B11	GND	B11
A12	STBY	A12
B12	SIRCS (OUT)	B12
A13	STBY+5V	A13
B13	STBY+5V	B13
A14	5V0	A14
B14	5V0	B14
A15	DGND	A15
B15	DGND	B15
A16	6V	A16
B16	6V	B16
A17	GND	A17
B17	GND	B17
A18	13V	A18
B18	13V	B18
A19	12V	A19
B19	12V	B19
A20	180V_SEN	A20
B20	70V_SEN	B20

CN5006
40P

G2
(CONNECTION)

G1
(CONNECTION)

CN5001
9P
WHT
:ELCO

1	MON.ROUT
2	GND
3	MON.LOUT
4	GND
5	SP.ROUT (-)
6	SP.ROUT (+)
7	GND
8	SP.LOUT (-)
9	SP.LOUT (+)

CN5002
4P
WHT
:ELCO

1	AUDIO-
2	AUDIO+
3	AUDIO+B
4	AUDIO+B

CN5005
4P
RED
:ELCO   TO

1	THERMO1
2	GND
3	0MP-CLK
4	0MP-01
5	FALE0-CS

CN5003
4P
RED
:ELCO   TO

1	SIRCS (IN)
2	SIRCS (OUT)
3	GND

CN5004
15P
RED
:ELCO   TO

1	STBY
2	STBY+5V
3	5V0
4	5V0
5	DGND
6	DGND
7	6V
8	6V
9	GND
10	GND
11	13V
12	12V
13	12V
14	70_SEN
15	180V_SEN

CN6501
5P
WHT
:S-MICRO

1	0MP-01
2	0MP-CLK
3	FALE0-CS
4	GND
5	STBY+5

AF
(DISPLAY)

CN4008
5P
WHT
:S-MICRO

0MP-01	1
0MP-CLK	2
FALE0-CS	3
GND	4
STBY+5	5

CN4005
4P
WHT
:S-MICRO

STBY+5V	1
SIRCS (IN)	2
SIRCS (OUT)	3
GND	4

CN4003
9P
WHT
:S-MICRO

MON.ROUT	1
GND	2
MON.LOUT	3
GND	4
SP.ROUT (-)	5
SP.ROUT (+)	6
GND	7
SP.LOUT (-)	8
SP.LOUT (+)	9

CN1101
4P
BLK
:S-MICRO

1	STBY+5
2	SIRCS (IN)
3	SIRCS (OUT)
4	GND

UA
(AUDIO OUT)
(SIRCS IN/OUT)

CN1102
9P
WHT
:S-MICRO

1	MON.ROUT
2	GND
3	MON.LOUT
4	GND
5	SP.ROUT (-)
6	SP.ROUT (+)
7	GND
8	SP.LOUT (-)
9	SP.LOUT (+)

CN9007
4P
:FT

LIVE	1
NEUTRAL	2
GND	3
	4

CN9008
4P
:FT

LIVE	1
NEUTRAL	2
GND	3
	4

PFM-500A1WU/PFM-500A1WE

9-1   9-1

PLASMA PANEL UNIT

Top connector pin labels (A1–A34 / B1–B34):

| B7 | R7 | GND | GND | R6 | GND | GND | R5 | R5 | GND | GND | B4 | R4 | GND | GND | B3 | R3 | GND | GND | R2 | GND | GND | R1 | GND | GND | R0 | GND | GND | V.SYNC | G7 | GND | H.SYNC | G6 | GND | BLANK | BLANK | G5 | GND | CLK | CLK | G4 | GND | NC | G3 | GND | NC | DISPEN | G2 | GND | NC | CNT-0 | G1 | G0 | CNT-1 | GND | CNT-2 | HGEN | NC | NC | NC |

CN9005
1 VCC
2 VCC
3 GND
4 VRS
5 GND
6 VRA
7 GND
8 VRR
9 GND

CN9006
1 GND
2 N.C
3 VS
4 VS
5 VS
6 N.C
7 VA
8 N.C
9 GND
10 GND

B-959583<U/C>-KESSEN-P1

CN9501
9P WHT :ELCO
1 MON.ROUT
2 GND
3 MON.LOUT
4 GND
5 SP.ROUT (−)
6 SP.ROUT (+)
7 GND
8 SP.LOUT (−)
9 SP.LOUT (+)

CN9016 :SMR   TO CN9501 ⑤
1 GND
2 FAN1
3 12V

CN9502
6P WHT :ELCO
1 AUDIO−
2 AUDIO−
3 AUDIO+B
4 AUDIO+B

CN9017 :SMR   TO CN9502 ⑥
1 GND
2 FAN2
3 12V

CN9018 :SMR   TO CN9503 ⑦
1 GND
2 FAN3
3 12V

CN9005
5P RED :ELCO   TO A1 BOARD CN6004 ①
1 THERMO1
2 GND
3 8MP-CLK
4 8MP-01
5 FALE8-CS

CN9003 :ELCO   TO H2 BOARD CN871 ②
1 SIRCS (IN)
2 SIRCS (OUT)
3 GND

CN9012
5P SMR
MON.ROUT	1
GND	2
MON.LOUT	3
GND	4
SP.ROUT (−)	5
SP.ROUT (+)	6
GND	7
SP.LOUT (−)	8
SP.LOUT (+)	9

CN9014
9P SMP
MON.ROUT	1
GND	2
MON.LOUT	3
GND	4
SP.ROUT (−)	5
SP.ROUT (+)	6
GND	7
SP.LOUT (−)	8
SP.LOUT (+)	9

CN503
WHT :S-MICRO
MON.ROUT	1
GND	2
MON.LOUT	3
GND	4
SP.ROUT (+)	5
SP.ROUT (+)	6
GND	7
SP.LOUT (−)	8
SP.LOUT (+)	9

CN501
4P :S-MICRO
9V	1
VOL	2
A.MUTE	3
AUDIO L	4
GND	5
AUDIO R	6
STBY+5V	7

TO H2 BOARD CN802 ⑧

CN9019 :SMR   TO CN9504 ⑨
1 GND
2 FAN4
3 12V

K
(AUDIO CONTROL)

CN9013 :SMR
AUDIO−	1
AUDIO−	2
AUDIO+B	3
AUDIO+B	4

CN9015 :SMP
AUDIO−	1
AUDIO−	2
AUDIO+B	3
AUDIO+B	4

CN502
4P WHT :S-MICRO
AUDIO−	1
AUDIO−	2
AUDIO+B	3
AUDIO+B	4

CN9020 :SMR   TO CN9505 ⑩
1 GND
2 FAN5
3 12V

CN9004
WHT :ELCO   TO B BOARD CN6, CN19 ③④
1 STBY
2 STBY+5V
3 5V0
4 5V0
5 0GN0
6 0GN0
7 6V
8 6V
9 GND
10 GND
11 13V
12 12V
13 12V
14 70_SEN
15 180V_SEN

CN9009
4P :FT   TO OPTION BOARD
1 LIVE
2 NEUTRAL
3 GND
4

UJ (SIGNAL IN INPUT SELECT)

CN902 15P :ELCO / CN102 15P :ELCO

1	SCL	1
2	50A	2
3	V.SYNC	3
4	A.MUTE	4
5	YCMODE	5
6	RGB1/ RGB2	6
7	VIDEO/ RGB	7
8	C.OUT	8
9	Y.OUT	1
10	GND	2
11	Y.OUT	3
12	GND	4
13	STBY+5V	5
14	GND	6
15	12V	7

CN905 7P :ELCO / CN101 7P :ELCO

	C.OUT	1
	Y.OUT	2
	GND	3
	STBY+5V	4
	GND	5
	12V	6

CN903 12P :ELCO / CN103 12P :ELCO

1	GND	1
2	V	2
3	H/HV	3
4	B-Y/B	4
5	GND	5
6	Y/G	6
7	GND	7
8	R-Y/R	8
9	GND	9
10	STBY+5V	10
11	RGB1-H	11
12	RGB2-H	12

CN901 6P :ELCO / CN103 6P :ELCO

1	L.OUT	1
2	GND	2
3	CLK	3
4	MOSI	4
5	GND	5
6	MISO	6

CONTROL PANEL

LED_POW_0	LED_POW_1	POWER	GND	GND	KL6P	KL1	KL2	KL3	KL4	KL5	KL6	STBY+5V	GND	GND	KS3	KS2	KS1	KS0	SIRCS	GND
1	2	3	4		1	2	3	4	5	6		1	2	3	4	5	6	7	8	

CN708 6P :ELCO

1	KL6P	
2	KL1	
3	KL2	
4	KL3	
5	KL4	
6	KL5	
7	KL6	

CN702 8P :ELCO

1	POWER	
2	KL6P	
3	KL1	
4	KL2	
5	KL3	
6	KL4	
7	KL5	
8	KL6	

CN709 8P :ELCO

1	STBY+5V	
2	GND	
3	GND	
4	KS3	
5	KS2	
6	KS1	
7	KS0	
8	SIRCS	
9	GND	

CN703 10P :ELCO

1	STBY+5V	
2	GND	
3	GND	
4	KS3	
5	KS2	
6	KS1	
7	KS0	
8	SIRCS	
9	LED_POW_1	
10	LED_POW_2	

CN710 6P :ELCO

1	LED_POW_0	
2	LED_POW_1	
3	LED_POW_2	
4	POWER	
5	GND	
6	GND	

CN710 6P :ELCO

1	STBY+5V (NC)	
2	GND	
3	SIRCS	

H6 (CONNECTION)

H1 (VIDEO SW)

CN104 64P / CN201 64P

A1	GND		GND	A1
B1	AUDIO.L		AUDIO.L	B1
A2	GND		GND	A2
B2	GND		GND	B2
A3	GND		GND	A3
B3	AUDIO.R		AUDIO.R	B3
A4	VIDEO		VIDEO	A4
B4	+13V		+13V	B4
A5	+13V		+13V	A5
B5	GND		GND	B5
A6	C.OUT		C.OUT	A6
B6	Y.OUT		Y.OUT	B6
A7	GND		GND	A7
B7	GND		GND	B7
A8	R.OUT		R.OUT	A8
B8	GND		GND	B8
A9	G.OUT		G.OUT	A9
B9	GND		GND	B9
A10	GND		GND	A10
B10	B.OUT		B.OUT	B10
A11	GND		GND	A11
B11	GND		GND	B11
A12	H/HV		H/HV	A12
A13	GND		GND	A13
A14	V		V	A14
A15	GND		GND	A15
A16				A16
A17	V.SYNC		V.SYNC	A17
B17	50A		50A	B17
A18	GND		GND	A18
A19	+5V		+5V	A19
B19	+5V		+5V	B19
A20	STBY+5V		STBY+5V	A20
A21	SCL		SCL	A21
B21	50A		50A	B21
A22	GND		GND	A22
A23	VIDEO/ RGB		VIDEO/ RGB	A23
B23	RGB1/ RGB2		RGB1/ RGB2	B23
A24	GND		GND	A24
B24	H0 YPBPR		H0 YPBPR	B24
A25	A.MUTE		A.MUTE	A25
B25	MAS/ SLAVE		MAS/ SLAVE	B25
A26	MASTER_RES		MASTER_RES	A26
B26	COL		COL	B26
B27				B27
A28	RGB1-H		RGB1-H	A28
A29	RGB2-H		RGB2-H	A29
B29	H0Y		H0Y	B29
A30				A30
B30	SIRCS_OUT		SIRCS_OUT	B30
A31	BUSY (NC)		BUSY (NC)	A31
B31	MOSI		MOSI	B31
A32	SIRCS_IN		SIRCS_IN	A32
B32	MISO		MISO	B32

CN209 30P

1	A.MUTE	A.MUTE	30
2	RGB1/ RGB2	RGB1/ RGB2	29
3	VIDEO/ RGB	VIDEO/ RGB	28
4	H0Y	H0Y	27
5	GND	GND	26
6	STBY+5V	STBY+5V	25
7	GND	GND	24
8	GND	GND	23
9	GND	GND	22
10	GND	GND	21
11	GND	GND	20
12	GND	GND	19
13	5V	5V	18
14	50A	50A	17
15	SCL	SCL	16
16	V.SYNC	V.SYNC	15
17	GND	GND	14
18	+13V	+13V	13
19	BUSY	BUSY	12
20	MISO	MISO	11
21	MOSI	MOSI	10
22	COL	COL	9
23	H0 YPBPR	H0 YPBPR	8
24	MASTER RES	MASTER RES	7
25	MAS/ SLAVE	MAS/ SLAVE	6
26	AUDIO.R	AUDIO.R	5
27	AUDIO.L	AUDIO.L	4

CN207 / CN816 6P :ELCO

1	Y.OUT	Y.OUT	1
2	GND	GND	2
3	C.OUT	C.OUT	3
4	GND	GND	4
5	VIDEO	VIDEO	5
6	GND	GND	6

CN807

1	STBY+5V (NC)	
2	CIRCS	

1	STBY+5V	
2	GND	
3	GND	
4	KS3	
5	KS2	
6	KS1	
7	KS0	
8	LED_POW_0	
9	LED_POW_1	
10	LED_POW_2	

1	POWER	
2	KL6P	
3	KL1	
4	KL2	
5	KL3	
6	KL4	
7	KL5	
8	KL6	

CN808 6P :ELCO

1	CTRL (NC)	
2	SM-CS (NC)	
3	OSB-CS (NC)	
4	0MP-DATA (NC)	
5	0MP-CLK (NC)	
6	GND	

H5 (CONNECTION)

TO OPTION BOARD

CN202 / CN204 30P

A1	GND
A2	GND
A3	GND
A4	GND
A5	GND
A6	GND
A7	GND
A8	CLK-BUS-CNT
A9	CLK-BUS-CNT
A10	CLK
A11	H.SYNC
A12	V.SYNC
A13	BLANK
B12	GND
B13	GND
B14	GND
B15	B.OUT
B16	G.OUT
B17	R.OUT
B18	SIRCS_OUT
B19	SIRCS_IN
B20	RGB2-H
B21	RGB1-H
B22	CLK-BUS-CNT

CN203 / CN210 SUB

1	V	V
2	GND	GND
3	H/HV	H/HV
4	B.OUT	B.OUT
5	G.OUT	G.OUT
6	R.OUT	R.OUT
7	SIRCS_IN	SIRCS_IN
8	SIRCS_OUT	SIRCS_OUT
9	RGB2-H	RGB2-H
10	RGB1-H	RGB1-H
11	CLK-BUS-CNT	CLK-BUS-CNT
12	CLK-BUS-CNT	CLK-BUS-CNT

H2 (SUB μCOM)

CN802 9P :ELCO

1	+9V	
2	VOL	
3	A.MUTE	
4	AUDIO.L	
5	GND	
6	AUDIO.R	
7	STBY+5V	

TO K BOARD CN501

| 1 | SIRCS_IN |
| 2 | SIRCS_OUT |

TO G1 BOARD CN5003

CN803 10P :ELCO

1	5V	5V
2	H0Y	H0Y
3	R-Y/R	R/R-Y
4	GND	GND
5	Y/G	G/Y
6	GND	GND
7	B-Y/B	B/B-Y
8	H/HV	H/HV
9	V	V
10	GND	GND

CN804 15P :ELCO

1	+13V	+13V
2	GND	GND
3	C.VIDEO	C.VIDEO
4	Y.OUT	Y.OUT
5	GND	GND
6	C.OUT	C.OUT
7	GND	GND
8	VIDEO/ RGB	VIDEO/ RGB
9	RGB1/ RGB2	RGB1/ RGB2
10	YC.MODE	YC.MODE
11	A.MUTE	A.MUTE
12	V.SYNC	V.SYNC
13	50A	50A
14	SCL	SCL

CN801 10P :ELCO

1	COL	COL
2	H0YPBPR	H0YPBPR
3	STBY+5V	STBY+5V
4	VOL	VOL
5	MAS/SLAVE	SLAVE /MAS
6	MASTER RES	MAS RES
7	BUSY	BUSY
8	RES	SYSRESET
9	SMCS	SMCS
10	SCK	SCK
11	S0TX	S0TX
12	S0RX	S0RX
13	MOSI	MOSI
14	MISO	MISO
15	GND	GND

CN815 4P :ELCO

1	RGB1-H	RGB1-H
2	GND	GND
3	RGB2-H	RGB2-H
4	GND	GND

B (SC...)

B1
(Y)

B (SCAN CONVERTER)

TO G1 BOARD CN5004   TO G1 BOARD CN5004

③   ④

TO CN9016 ⑤
TO CN9017 ⑥
TO CN9018 ⑦
TO CN9019 ⑨
TO G1 BOARD CN5005 ①
TO CN9020 ⑩

A1
(SENSOR
DET)

S1
(SENSOR)

S1
(SENSOR)

TO
PLASMA PANEL
UNIT ⑪

A1	B7
B1	R7
A2	GND
A3	B6
A4	R6
B3	GND
A5	B5
A6	R5
B5	GND
A7	B4
B7	R4
A8	GND
A9	B3
A10	R3
B10	GND
A11	B2
A12	GND
B12	R2
A13	B1
A14	R1
B14	GND
A15	R0
A16	GND
B16	V.SYNC
A17	G7
A18	GND
A19	H.SYNC
B19	G6
A20	BLANK
A21	GND
B21	G5
A22	GND
A23	CLK
B23	G4
A24	GND
A25	NC
B25	G3
A26	GND
A27	G1SPEN
B27	GND
A28	GND
A29	NC
B29	G1
A30	GND
A31	CNT-0
B31	NC
A32	CNT-2
B32	GND
A33	GND
B33	HQEN
B34	NC
A34	NC

B-599583<U/C>-KESSEN-P2

H5 – B SIDE –

SUFFIX: -11

H5
(CONNECTION)

9-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms, 1/4W in resistance, 1/10W in chip resistance.
  kΩ = 1000Ω, MΩ = 1000kΩ
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- △ : internal component.
- ▭ : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltage value is the reference value between it and the earth, when NTSC color bar signal is received from color bar generator (digital multi-meter used : 10M ohms/V DC).
- Unit of voltage value is V (volt).
- * : Measurement disabled.
- Circled numbers are waveform references.
- ⇨ : Signal Path.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	:	ADJUSTMENT RESISTOR
COIL	: LF-8L ※	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE
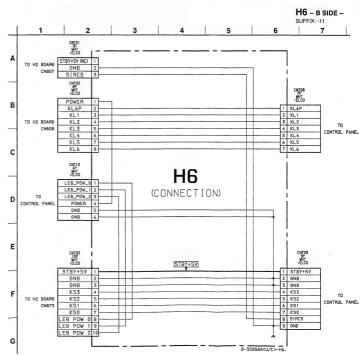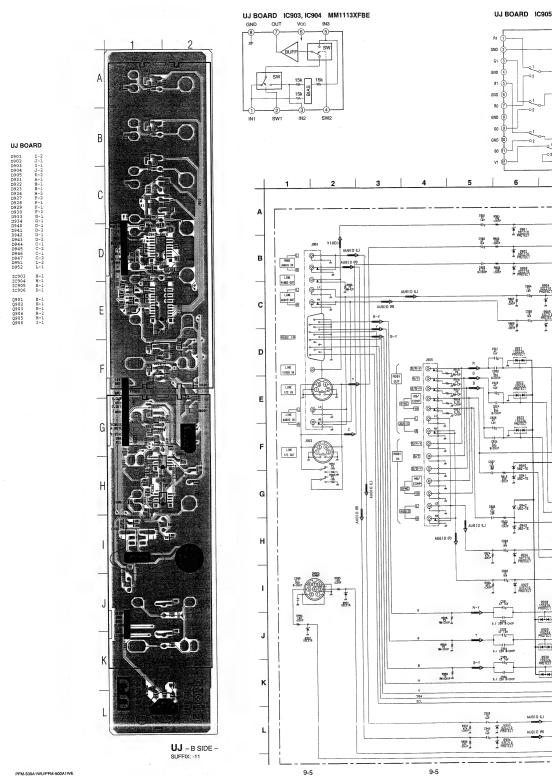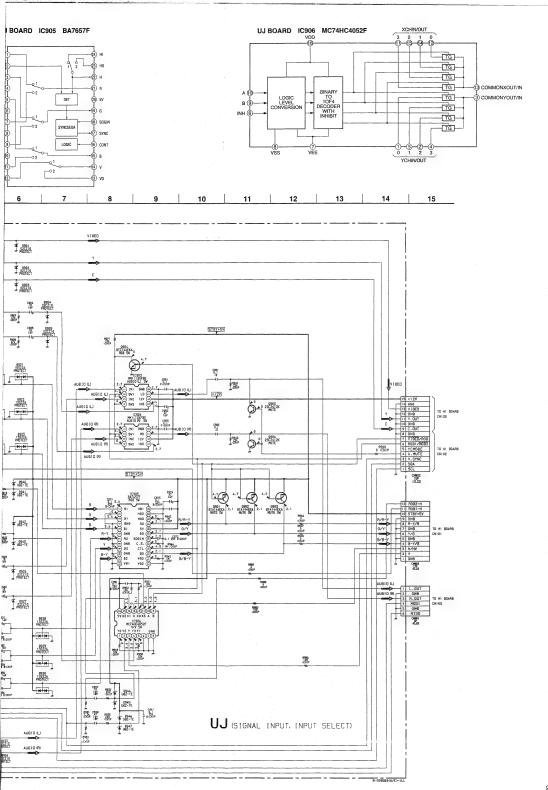
Note: The component identified by mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies par une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

H6 – B SIDE –
SUFFIX: -11

H6 (CONNECTION)

B-999583<U/C>-H6.

UJ BOARD IC903, IC904 MM1113XFBE

UJ BOARD IC905

UJ BOARD

D901	I-2
D902	J-1
D903	I-1
D904	J-2
D905	K-2
D921	A-1
D922	B-1
D923	B-1
D926	H-2
D927	F-2
D928	F-1
D929	F-1
D930	F-2
D933	G-1
D934	G-1
D940	D-1
D941	D-2
D942	D-1
D943	D-2
D944	C-1
D945	C-2
D946	C-1
D947	C-2
D951	L-2
D952	L-1
IC903	H-1
IC904	H-1
IC905	E-1
IC906	D-1
Q901	E-1
Q902	E-1
Q903	E-1
Q904	H-2
Q905	H-1
Q906	I-1

UJ – B SIDE –
SUFFIX: -11

UJ BOARD IC906 MC74HC4052F

XCHIN/OUT

3 2 1 0

VDD

LOGIC LEVEL CONVERSION

BINARY TO 1OF4 DECODER WITH INHIBIT

A
B
INH

VSS   VEE

TG
TG
TG
TG
TG
TG
TG
TG

COMMONXOUT/IN
COMMONYOUT/IN

0 1 2 3

YCHIN/OUT

HI
HO
H
R
5V
G
SOGIN
SYNC
CONT
B
V
VO

DET

SYNCSEQA

LOGIC

6	7	8	9	10	11	12	13	14	15

VIDEO

Y

C

STBY+5V

+12V

VIDEO

Y

C

STBY+5V

AUDIO (L)
AUDIO (L)
AUDIO (L)
AUDIO (R)
AUDIO (R)
AUDIO (R)

IC903
IC904

R
G
B
R-Y
B-Y

IC905
BA7657F
RGB 5V

IC906
MC74HC4052F
H/V 5V

TO HI BOARD
CN105

+12V
GND
VIDEO
Y.OUT
GND
C.OUT
VIDEO/RGB
RGB1/RGB2
YCMODE
A.MUTE
V.SYNC
50A
SCL

RGB2-H
RGB1-H
STBY+5V
R-Y/R
GND
Y/G
GND
B-Y/B
H/HV
V

TO HI BOARD
CN102

TO HI BOARD
CN101

L.OUT
GND
R.OUT
MOSI
GND
MISO

TO HI BOARD
CN103

AUDIO (L)
AUDIO (R)

AUDIO (L)
AUDIO (R)

UJ (SIGNAL INPUT, INPUT SELECT)

R1 (1)
GND (2)
G1 (3)
GND (4)
B1 (5)
GND (6)
R0 (7)
GND (8)
G0 (9)
GND (10)
B0 (11)
V1 (12)

	1	2	3
A			
B			
C			
D			
E			
F			
G			
H			
I			
J			
K			

C1011 16V

PR/R

C10 16V

Y/G

CN101 WHT

PB/B

GND	1	
V	2	
H/HV	3	B/B-Y → PB/B
B-Y/B	4	
GND	5	G/Y → Y/G
Y/G	6	
GND	7	R/R-Y → PR/R
R-Y/R	8	
GND	9	
STBY+5V	10	
RGB1-H	11	
RGB2-H	12	

TO UJ BOARD CN903

R182 RN-CP R184 RN-CP R185 RN-CP

C146 120K CH-CHIP C147 120K CH-CHIP C148 120K CH-CHIP

CN102 SP WHT

SCL	1
SBA	2
V.SYNC	3
A.MUTE	4
YC MODE (NC)	5
RGB1/RGB2	6
VIDEO/RGB	7
GND	8

TO UJ BOARD CN902 ①-⑧ pins

R201 RN-CP

CN105 WHT

C.OUT	1
GND	2
Y.OUT	3
GND	4
VIDEO	5
GND	6
+12V	7

TO UJ BOARD CN902 ⑨-⑮ pins

C187 100 16V VIDEO

CN103 SP WHT

L.OUT	1
GND	2
R.OUT	3
MOSI	4
MISO	5

TO UJ BOARD CN901

AUDIO (L) → AUDIO
AUDIO (R) → AUDIO

SONY

H1
1-669-703-1 (B)

H1 BOARD   IC101   BA7657F

R1	HI
GND	HQ
G1	H
GND	5V
B1	OUT
GND	G
R0	SOGIN
GND	SYNC
B0	CONT
GND	V
B0	V
V1	VO

DET

SYNCSEGA

LOGIC

H1 BOARD   IC104   BA10358F

H1
(VIDEO SW)

CN104
64P

A1	GND
B1	AUDIO.L
A2	GND
B2	GND
A3	GND
B3	AUDIO.R
A4	VIDEO
B4	+13V
A5	GND
B5	C.OUT
A6	Y.OUT
B6	GND
A7	GND
B7	R.OUT
A8	GND
B8	GND
A9	GND
B9	G.OUT
A10	GND
B10	GND
A11	GND
B11	B.OUT
A12	GND
B12	GND
A13	GND
B13	H/HV
A14	GND
B14	GND
A15	GND
B15	V
A16	GND
B16	V.SYNC
A17	GND
B17	SDA
A18	GND
B18	GND
A19	+5V
B19	+5V
A20	GND
B20	STBY+5V
A21	GND
B21	SCL
A22	GND
B22	COL
A23	VIDEO/RGB
A24	RGB1/RGB2
A25	HD YPBPR
A26	A.MUTE
A27	MAS/SLAVE
A28	MASTER RES
A29	COL
A30	RGB1-H
A31	RGB2-H
A32	HDY

A30	SIRCS OUT
A31	BUSY (NC)
A32	MOSI
A33	SIRCS IN
A34	MISO

TO H5 BOARD
CN201

B-SS9583<U/C>-H1.

H2 BOARD
*: B SIDE

A

B

C

D

E

F

G

H

I

J

K

D801	*H-1
D802	*H-1
D803	*H-1
D804	*H-1
D805	*H-1
D806	*H-1
D807	J-2
D808	I-2
D809	I-2
D810	I-2
D811	I-2
D812	I-2
D850	*I-1
D851	I-1
D852	J-1
D853	J-1
D871	H-2
D872	H-2
D873	H-2
D874	H-2
D875	J-2
D876	*I-2
D877	*I-2
D878	*I-2
D879	*I-2
D880	*I-2
D881	K-1
D882	K-1
D898	*H-2
D899	*J-1
IC801	*G-2
IC802	E-1
IC803	F-1
IC871	*I-1
IC872	H-1
IC873	J-1
Q850	I-1
Q851	*I-1
Q852	I-1
Q853	I-1
Q871	*I-1
Q872	*I-1
Q873	*I-1
Q874	*I-1
Q875	*I-1
Q876	*I-1
Q877	*I-1
Q878	*I-1
Q879	E-1

H2 – A SIDE –
SUFFIX: -11

H2 – B SIDE –
SUFFIX: -11

H2 (SUB μCOM)

H2 (SUB μCOM

H2 BOARD

①
4.2 Vp-p (4MHz)

②
1.0 Vp-p (H)

③
2.1 Vp-p (H)

H2 BOARD   IC802, 803   MM1114XFBF

H2 (SUB μCOM)

CN703 (TO H6 BOARD)
1	STBY+5V
2	GND
3	GND
4	KS 3
5	KS 2
6	KS 1
7	KS 0
8	LED POW 0
9	LED POW 1
10	LED POW 2

CN702 (TO H6 BOARD)
1	POWER
2	KLP6
3	KL 1
4	KL 2
5	KL 3
6	KL 4
7	KL 5
8	KL 6

CN203 (TO H5 BOARD)
1	AUDIO.L
2	GND
3	AUDIO.R
4	MAS/SLAVE
5	HD YPBPR
6	COL
7	COL
8	MOSI
9	MISO
10	BUSY
11	+13V
12	+13V
13	GND
14	V.SYNC
15	SDA
16	SCL
17	+5V
18	+5V
19	GND
20	GND
21	GND
22	GND
23	GND
24	GND
25	STBY+5V
26	GND
27	HGY
28	VIDEO/RGB
29	RGB1/RGB2
30	A.MUTE

CN20 (TO B BOARD (7/9))
1	RGB1-H
2	GND
3	RGB2-H
4	GND

CN204 (TO H5 BOARD)
1	V
2	GND
3	H/HV
4	GND
5	B.OUT
6	GND
7	G.OUT
8	GND
9	R.OUT
10	GND
11	SIRCS OUT
12	SIRCS IN
13	RGB1-H
14	RGB2-H
15	GND
16	GND
17	CLK-BUS-CNT
18	BUS-CONT
19	GND
20	CLK
21	GND
22	H.SYNC
23	V.SYNC
24	BLANK
25	GND
26	B0
27	B1
28	GND
29	B2
30	B3

CN14 (TO B BOARD (1/9))

B – A SIDE –
SUFFIX-11

B - A SIDE -
SUFFIX: -11

B BOARD
*: B SIDE

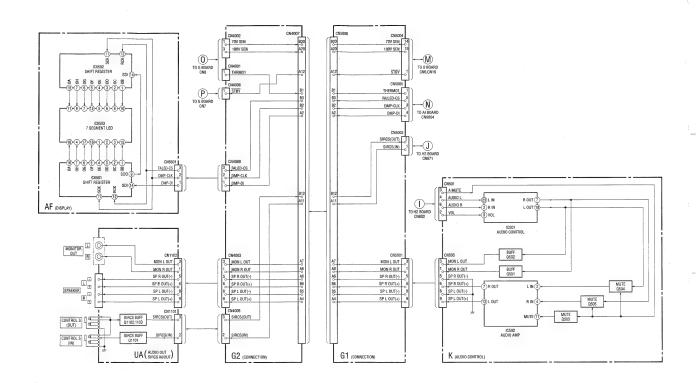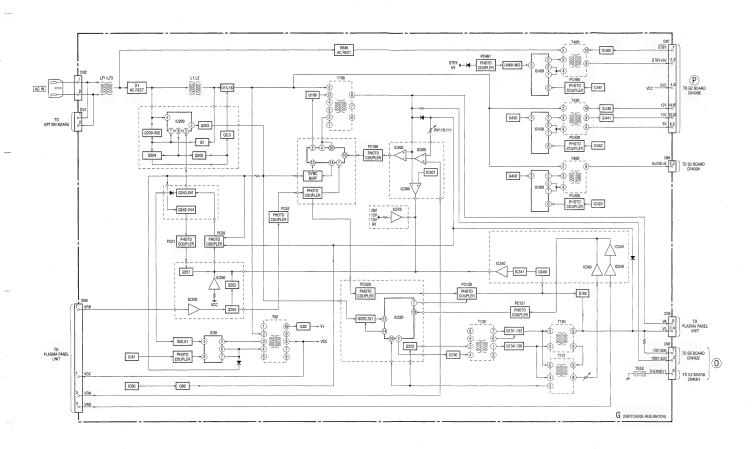| | | | | | | |
|---|---|---|---|---|---|
| D1 | E-6 | IC505 | *C-3 | Q559 | *D-3 |
| D16 | *F-7 | IC508 | *C-4 | Q560 | *D-3 |
| D17 | *F-7 | IC509 | *C-5 | Q561 | *D-2 |
| D18 | *F-7 | IC510 | *C-5 | Q562 | *D-2 |
| D19 | *F-7 | IC511 | D-4 | Q563 | *D-3 |
| D20 | *F-7 | IC512 | D-4 | Q564 | *D-3 |
| D21 | *F-7 | IC513 | D-4 | Q565 | *D-3 |
| D22 | *F-7 | IC514 | D-4 | Q566 | *D-3 |
| D23 | *F-7 | IC515 | *D-4 | Q567 | D-2 |
| D203 | *E-4 | IC516 | *D-4 | Q568 | E-2 |
| D204 | *E-4 | IC517 | *C-1 | Q569 | E-2 |
| D322 | *C-1 | IC521 | *C-1 | Q570 | E-2 |
| D324 | *B-1 | IC522 | *F-3 | Q571 | *E-2 |
| D326 | *C-1 | IC523 | E-3 | Q572 | *E-2 |
| D331 | B-1 | IC525 | D-5 | Q573 | *E-3 |
| D332 | B-1 | IC526 | B-4 | Q574 | E-2 |
| D334 | C-1 | IC527 | F-3 | Q575 | *D-2 |
| D336 | *C-1 | IC528 | B-4 | Q576 | E-2 |
| D341 | A-3 | IC701 | I-2 | Q577 | *D-2 |
| D501 | *B-2 | IC702 | *I-2 | Q578 | *D-3 |
| D502 | *B-2 | IC703 | G-2 | Q579 | *E-3 |
| D503 | *B-2 | IC704 | G-2 | Q580 | E-2 |
| D504 | *B-2 | IC705 | G-2 | Q581 | *E-2 |
| D505 | *B-3 | IC706 | D-3 | Q582 | *E-2 |
| D508 | C-2 | IC707 | *H-1 | Q583 | *E-2 |
| D510 | *C-2 | IC708 | *H-3 | Q584 | *E-2 |
| D512 | C-2 | IC712 | *B-1 | Q585 | *E-3 |
| D514 | C-2 | IC713 | *I-1 | Q586 | *E-3 |
| D516 | C-3 | IC714 | *C-1 | Q587 | *E-3 |
| D518 | C-3 | IC777 | *C-1 | Q588 | *F-2 |
| D520 | C-2 | IC1001 | A-3 | Q589 | *F-2 |
| D521 | *C-2 | IC1002 | B-6 | Q590 | *F-2 |
| D522 | *C-3 | IC1003 | B-5 | Q591 | *F-2 |
| D523 | *C-3 | IC1004 | C-6 | Q592 | *F-3 |
| D526 | B-2 | IC1005 | C-6 | Q593 | *F-3 |
| D528 | E-2 | IC1006 | B-4 | Q594 | *F-3 |
| D530 | *C-2 | IC1007 | A-4 | Q595 | *F-3 |
| D532 | E-2 | IC1008 | B-7 | Q596 | *F-2 |
| D534 | E-3 | IC1009 | B-7 | Q597 | *F-2 |
| D536 | *E-2 | IC1010 | A-6 | Q598 | *F-2 |
| D537 | *E-2 | IC1011 | *B-5 | Q599 | *E-2 |
| D538 | *E-2 | IC1012 | B-7 | Q600 | *F-2 |
| D539 | *E-2 | | | Q601 | *F-2 |
| D540 | *E-2 | Q1 | D-6 | Q602 | *F-2 |
| D541 | *E-3 | Q201 | D-3 | Q603 | *F-2 |
| D542 | *E-3 | Q215 | F-3 | Q604 | *E-3 |
| D544 | F-2 | Q307 | *A-1 | Q605 | *A-3 |
| D546 | F-2 | Q310 | *A-2 | Q606 | *A-4 |
| D548 | F-2 | Q311 | A-2 | Q607 | *A-4 |
| D550 | *F-2 | Q313 | *D-1 | Q608 | *A-4 |
| D777 | C-1 | Q314 | *D-1 | Q609 | *A-4 |
| D778 | C-1 | Q315 | *D-1 | Q610 | *A-4 |
| D1001 | C-5 | Q316 | *C-1 | Q611 | *F-2 |
| D1002 | B-5 | Q317 | *B-2 | Q612 | *C-3 |
| | | Q318 | *B-2 | Q613 | *C-4 |
| | | Q320 | *B-1 | Q614 | *A-4 |
| IC100 | *D-5 | Q321 | *C-1 | Q615 | D-3 |
| IC101 | F-7 | Q322 | *B-1 | Q701 | *F-3 |
| IC102 | G-7 | Q323 | A-1 | Q702 | *F-3 |
| IC103 | I-6 | Q324 | A-1 | Q1001 | A-4 |
| IC104 | I-6 | Q325 | A-1 | Q1002 | *A-4 |
| IC105 | I-5 | Q326 | A-1 | Q1003 | A-4 |
| IC106 | I-5 | Q327 | A-1 | Q1004 | A-5 |
| IC107 | I-4 | Q328 | A-1 | Q1005 | *A-4 |
| IC108 | *I-4 | Q329 | A-3 | Q1006 | A-4 |
| IC150 | *B-5 | Q330 | A-1 | Q1007 | B-4 |
| IC151 | F-6 | Q351 | *B-1 | Q1008 | *A-4 |
| IC152 | G-6 | Q352 | B-1 | Q1009 | *A-4 |
| IC153 | G-6 | Q354 | B-2 | Q1010 | *B-4 |
| IC154 | H-6 | Q355 | *C-1 | Q1011 | *A-4 |
| IC155 | H-5 | Q356 | *D-1 | Q1012 | A-4 |
| IC156 | H-5 | Q357 | *C-1 | Q1013 | *A-4 |
| IC157 | H-4 | Q358 | D-1 | Q1014 | A-4 |
| IC158 | *H-4 | Q501 | B-2 | Q1015 | *A-7 |
| IC200 | *G-5 | Q502 | B-2 | Q1016 | *A-7 |
| IC201 | F-7 | Q503 | B-2 | Q1018 | *A-7 |
| IC202 | G-7 | Q504 | B-2 | Q1019 | *A-7 |
| IC203 | I-6 | Q505 | B-3 | Q1020 | B-7 |
| IC204 | I-6 | Q506 | B-3 | | |
| IC205 | I-5 | Q507 | *C-2 | TP7 | D-6 |
| IC206 | I-5 | Q508 | *C-2 | TP8 | D-6 |
| IC207 | I-4 | Q509 | *C-2 | TP10 | D-6 |
| IC208 | F-4 | Q510 | *C-2 | TP11 | D-6 |
| IC250 | *G-5 | Q511 | *C-2 | TP12 | D-6 |
| IC251 | G-4 | Q512 | *C-2 | TP13 | D-6 |
| IC252 | D-6 | Q513 | *C-2 | TP14 | D-6 |
| IC253 | D-7 | Q514 | *C-2 | TP70 | E-1 |
| IC254 | D-7 | Q515 | *C-2 | TP71 | E-1 |
| IC255 | D-7 | Q516 | *C-2 | TP72 | I-1 |
| IC256 | E-7 | Q517 | *C-2 | TP73 | F-1 |
| IC258 | D-7 | Q518 | *C-3 | TP101 | F-5 |
| IC259 | D-7 | Q519 | *C-2 | TP102 | F-5 |
| IC260 | B-7 | Q520 | *C-2 | TP103 | F-5 |
| IC261 | D-5 | Q521 | *C-2 | TP104 | F-4 |
| IC262 | D-5 | Q522 | *C-2 | TP105 | F-4 |
| IC263 | *E-5 | Q523 | *C-2 | TP106 | G-4 |
| IC264 | E-5 | Q524 | *C-2 | TP107 | G-4 |
| IC265 | *E-5 | Q525 | *C-2 | TP108 | G-7 |
| IC266 | *E-5 | Q526 | C-2 | TP109 | G-6 |
| IC267 | F-5 | Q527 | *C-2 | TP111 | G-5 |
| IC268 | *G-4 | Q528 | *C-3 | TP112 | G-5 |
| IC269 | *E-5 | Q529 | *C-2 | TP113 | C-5 |
| IC270 | E-5 | Q530 | *C-3 | TP114 | C-5 |
| IC271 | E-6 | Q531 | *C-2 | TP115 | H-4 |
| IC273 | G-5 | Q532 | C-2 | TP116 | H-4 |
| IC275 | G-5 | Q533 | C-2 | TP200 | B-4 |
| IC276 | G-5 | Q534 | C-2 | TP301 | A-1 |
| IC277 | G-5 | Q535 | C-2 | TP302 | B-2 |
| IC278 | F-5 | Q536 | C-3 | TP303 | D-4 |
| IC280 | *G-5 | Q537 | C-2 | TP304 | B-3 |
| IC285 | F-3 | Q539 | *D-2 | TP305 | B-3 |
| IC286 | G-3 | Q540 | *D-2 | TP306 | D-2 |
| IC287 | *G-3 | Q541 | *D-2 | TP307 | D-2 |
| IC288 | D-7 | Q542 | *D-1 | TP501 | D-6 |
| IC300 | A-2 | Q543 | *D-2 | TP502 | D-4 |
| IC301 | A-2 | Q544 | *D-2 | TP503 | D-4 |
| IC302 | A-1 | Q545 | *D-2 | TP505 | C-5 |
| IC303 | B-1 | Q546 | *D-2 | TP506 | D-4 |
| IC304 | C-5 | Q547 | *D-1 | TP701 | G-2 |
| IC305 | B-1 | Q548 | *D-2 | TP702 | G-2 |
| IC306 | D-1 | Q549 | *B-2 | TP703 | G-2 |
| IC317 | A-2 | Q550 | *B-2 | TP704 | G-2 |
| IC318 | *A-2 | Q551 | *B-2 | TP705 | H-3 |
| IC319 | B-1 | Q552 | *D-3 | TP706 | H-1 |
| IC321 | B-1 | Q553 | *B-3 | TP707 | H-1 |
| IC330 | B-1 | Q554 | *D-3 | TP708 | H-1 |
| IC331 | B-1 | Q555 | *D-3 | TP709 | H-1 |
| IC501 | C-4 | Q556 | *D-2 | TP710 | G-1 |
| IC502 | B-4 | Q557 | *D-2 | TP711 | G-1 |
| IC503 | *D-4 | Q558 | *D-2 | TP1001 | B-4 |

| | | | | | | |
|1|2|3|4|5|6|7|

A
B
C
D
E
F
G
H
I

B – B SIDE –
SUFFIX: -11

PFM-500A1WU/PFM-500A1WE

B (1/9)
(PDP INTERFACE)

TO PALSMA PANEL UNIT

IC701
EPF10K20TC144-3
PDP INTERFACE

TC74VHC245F BUS BUFF

PIC-AGC
TO P3

SYS-RESET TO P7

CHECK

TO H5 BOARD
CN206

B (1/9) BOARD   IC708   UPD6453GT

INPUT DATA SHIFT REGISTER	INSTRUCTION DECODER	CONTROL SIGNAL			
DATA BUFFER REGISTER					

CHARACTER SIZE REGISTER · H.ADDRESS REGISTER · WRITING ADDRESS COUNTER · DATA SELECTOR · VIDEO RAM (CHARACTER DATA, COLOR DATA, PRINTER DATA) · BACKGROUND CONTROL DATA REGISTER · DISPLAY CONTROL DATA REGISTER

H SIZE COUNTER · H.POSITION COUNTER · H.ADDRESS COUNTER

OSCILLATION CIRCUIT · V.ADDRESS REGISTER · CHARACTER GENERATOR RAM · CHARACTER GENERATOR ROM

SYNC PROTECTION CIRCUIT · TIMING GENERATOR · V.SIZE COUNTER · V.POSITION COUNTER · V.ADDRESS COUNTER · OUTPUT CONTROLLER

19	20	21

V163R08 TO P2
AV.L

B (1/9)
(PⓈP INTERFACE)

B-5995B3<U/C>-B..-P1

B (1/9) BOARD

① 4.6 Vp-p (H)
② 4.6 Vp-p (V)
③ 4.7 Vp-p (H)
④ 4.9 Vp-p (H)
⑤ 4.9 Vp-p (H)
⑥ 4.9 Vp-p (V)
⑦ 4.1 Vp-p (H)
⑧ 3.7 Vp-p (H)
⑨ 3.7 Vp-p (V)

B (2/9) BOARD

① 2.0 Vp-p (H)	② 1.8 Vp-p (H)	③ 1.9 Vp-p (H)
④ 0.5 Vp-p (H)	⑤ 0.9 Vp-p (H)	⑥ 1.6 Vp-p (H)
⑦ 1.2 Vp-p (500kHz)	⑧ 4.0 Vp-p (H)	⑨ 4.0 Vp-p (V)
⑩ 0.3 Vp-p (3.58MHz)	⑪ 1.2 Vp-p (H)	⑫ 1.2 Vp-p (H)
⑬ 0.8 Vp-p (H)	⑭ 1.1 Vp-p (H)	⑮ 1.1 Vp-p (H)
⑯ 0.8 Vp-p (H)	⑰ 1.1 Vp-p (H)	⑱ 1.1 Vp-p (H)
⑲ 1.1 Vp-p (H)		

A.O.MUTE
TO P7

R778
-CHIP

R779 -CHIP
R777 R776
-CHIP -CHIP

CN1
15P
BTGB
SCL 15
SDA 14
V.SYNC 13
A.MUTE 12
YCMODE 11
RGB1/RGB2 10
RGB/VIDEO 9
GND 8
C 7
GND 6
Y 5
GND 4
C.VIDEO 3
GND 2
13V 1
TO H2 BOARD
CN804

RGB1/RGB2
RGB/VIDEO

R780 -CHIP

IC777
24LC21/SN
96C
U0Z-TE-17-12B

U0Z-TE-17-12B
R778 -CHIP

+5V

RGB/VT TO P3
C
VIDEO
VIDEO

C801 CH/CHIP
C802 CH/CHIP

CN2
16P
BTGB
GND 10
V 9
H/HV 8
B/B-Y 7
GND 6
G/Y 5
GND 4
R/R-Y 3
H0Y 2
5V 1
TO H2 BOARD
CN803

B/B-Y
G/Y
R/R-Y

+12VA

H0Y
TO P3

+13V

+12VA

R871
R.32
1M

IC712
LM2940CT-12
+12V REG
TP71

C728 C729
.1 .1
50V 50V
CHIP CHIP

C730 C731
220 220
10V 10V
CH CH

TP70

CN6
11P
WHT
1R
13V 11
AGND 10
AGND 9
6V 8
6V 7
0GND 6
0GND 5
5VB 4
5VB 3
STBY5V 2
STBY 1

TO G1 BOARD
CN5004
① (1) P1M5

R872
R.32
1M

IC713
LM2940CT-5.0
+5V REG
TP72

IC714
LM2940CT-5.0
+5V REG
TP73

C710 .1
50V CHIP

C732 C733
220 220
10V 10V
CH CH

C74A
220
10V
CH

C745 .1
50V
CHIP

TO P7
STBY
STBY5V
TO P3,P7 5VB
TO P3,P7,P9 12VA
TO P3,P8 5VA
TO P9 COM5V

TO P1 AV.L

B (2/9)

(RGB DECODER)

B (3/9)
(R/G/B A/D CONVERTER)

6 7 8 9 10 11 12 13 14 15 16 17

(R/G

B (3/9) BOARD

$\overline{B}$(3/9)
(R/G/B A/D CONVERTER)

A

<5VB TO P3, P7
<ABCK TO P7

B

R
⊠ RAB TO P4

C

+5VB

E

B (3/9) BOARD

①	②	③
0.4 Vp-p (H)	0.4 Vp-p (H)	0.4 Vp-p(H)
④	⑤	⑥
1.5 Vp-p (H)	1.5 Vp-p (H)	1.5 Vp-p(H)
⑦	⑧	⑨
1.5 Vp-p (H)	1.5 Vp-p (H)	1.5 Vp-p(H)
⑩	⑪	⑫
4.0 Vp-p (H)	4.0 Vp-p (V)	4.7 Vp-p(H)
⑬	⑭	
4.7 Vp-p (H)	4.8 Vp-p (V)	

H

G
⊠ BAB
TO P5

L

B
⊠ BAB
TO P4

M

+5VB

O

$\overline{B}$ (3/9)
A/D CONVERTER)

IC200
TC74VHC574F (EL)
LATCH

IC201
μPD485505G-25-E2
LINE MEMORY A

IC202
μPD485505G-25-E2
LINE MEMORY B

IC208
TC74VHC574F (EL)
LATCH

TO P3

TO P5-P7

LM-WR
LM-R0
FMAC-WR
FMB0-WR

LTCK1
LMWCK
RSTWAB
LMWEA

RSTRA
LMRCKA

LMWEB

RSTRB
LMRCKB

A00E

LTCK2

HM50281RTT-20 FRAME MEMORY A
HM50281RTT-20 FRAME MEMORY B

C200 B:CHIP
C201 25V B:CHIP
C202 25V B:CHIP
C203 B:CHIP
C204 B:CHIP
C205 B:CHIP
C207 B:CHIP
C209 B:CHIP

FMWCKA
WRSA
WLRSA

FMWEA
FMWEC
FMWCKC
WRSC
WLRSC
WCLR

FMWCKB
WRSB
WLRSB

FMWEB
FMWEB
FMWCKB
WRSB
WLRSB

5V-2

(R)

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

IC207
CX8303-105Q
DIGITAL FILTER

B (4/9)
(LINE/FRAME MEMORY,)
(DIGITAL FILTER)

B (4/9) BOARD

1.8 Vp-p
S: 33.5nsec

B-599503<U/C>-B..-P4

TO P5-P7

5V-2

(G)

IC107
CX0503-105Q
DIGITAL FILTER

COEFL8
LOCK

V8OE TO P4, P6, P7
G8A TO P1
ROM-8T

TO P4, P6, P7

S8RX
S8TX
SCK
SCS TO P7
R8EN

V8F-CTL TO P4, P6, P7
MUTE

B-SS9583<U/C>-B..-PS

FMAC-R8
TO P4, P6, P7

FMB8-R8
TO P4, P6, P7

B (5/9)
(LINE/FRAME MEMORY,)
(DIGITAL FILTER)

FRAME MEMORY A — IMS5028(RTT-28)
FRAME MEMORY C — IMS5028(RTT-28)
FRAME MEMORY B — IMS5028(RTT-28) IC105
FRAME MEMORY D — IMS5028(RTT-28) IC106

B (5/9) BOARD

①
1.8 Vp-p
S: 33.5nsec

9-13

(B)

B TO P1
ROM-8T

V8DE TO P4, P5, P7

TO P4, P5, P7

IC157
CX8503-105Q
DIGITAL FILTER

①

TO P4, P5, P7
FMAC-R8

TO P4, P5, P7
FMB0-R8

5V-2

S8RX
S8TX
SCK
8CS TO P7

PL8RX
DS80T TO P1
DS8CK

V8F-CTL
MUTE TO P4, P5, P7

B-SS9583<U/C>-B..-P6

B (6/9)
(LINE/FRAME MEMORY,)
(DIGITAL FILTER)

IMS5028I RITT-20 FRAME MEMORY A
IMS5028I RITT-20 FRAME MEMORY C
IMS5028I RITT-20 FRAME MEMORY B
IMS5028I RITT-20 FRAME MEMORY D

B (6/9) BOARD

①

1.8 Vp-p
S: 33.5nsec

PFM-500A1WU/PFM-500A1WE

B (7/9)

(SYSTEM CONTROL)

B (7/9) BOARD

① 4.8 Vp-p (V)

④ 5.0 Vp-p (H)

⑦ S 5.0 Vp-p S: 74.5nsec

⑩ 2.6 Vp-p (19.66MH)

CN19 TO G1 BOARD CN5004 (12-15)PIN
- +12V
- +12V
- GND
- GND
- 70VSEN
- 180VSEN

CN18 TO FAN
- +12V
- FAN1
- GND
- FAN2
- GND
- +12V
- FAN3
- GND
- +12V
- FAN4
- GND
- FAN5
- GND

CN17 TO A1 BOARD CN6001
- GND
- FAN1
- FAN2
- FAN3
- FAN4
- FAN5
- 70VSENS
- 180VSENS
- FALE0-CS
- P.SW

CN16 TO A1 BOARD CN6005
- 12V
- 12VA
- GND
- STBY+5V
- GND
- FASR-CS
- FAIL-CS
- BMP-B0
- BMP-B1
- BMP-CLK

CN9 TO H2 BOARD CN801
- COL
- HBYPSPR
- STBY+5V
- VOL
- SLAVE/MAS
- MAS RES
- BUSY
- SYSRES
- SMCS
- SCK
- S6TX
- S6RX
- MOSI
- MISO
- GND

IC264 CLOCK GEN.
IC287 TC74VHC152F DATA SELECTOR
IC270 TC74VHC74F ELJ PRESCALER
IC241 CLOCK SW
IC245 CLOCK SELECTOR
IC281 H8647S2607IO SYSTEM CONTROL

MC74HC244AF-T2 BUFF
MC74HC153AF-T2 COMP.
MC74HC86AF-T2

B (7/9)
(SYSTEM CONTROL)

B-559583

9-15   9-15

A

B (7/9) BOARD

①	②	③
4.8 Vp-p (V)	4.8 Vp-p (H)	4.9 Vp-p (V)
④	⑤	⑥
5.0 Vp-p (H)	5.0 Vp-p (H)	2.5 Vp-p S: 33.5nsec
⑦	⑧	⑨
5.0 Vp-p S: 74.5nsec	5.0 Vp-p S: 74.5nsec	5.0 Vp-p S: 74.5nsec
⑩	⑪	⑫
2.6 Vp-p (19.66MHz)	4.9 Vp-p (H)	5.0 Vp-p (V)

CN19
TO G1 BOARD
CNS004
(2)-(15)PIN

1 +12V
2 +12V
3 GND
4 GND
5 70VSEN
6 180VSEN

CN18
TO FAN

1 +12V
2 FAN1
3 GND
4 FAN2
5 GND
6 FAN3
7 GND
8 FAN4
9 GND
10 +12V
11 GND
12 FAN5
13 +12V
14 GND
15 GND

CN17
TO A1 BOARD
CN6001

1 GND
2 FAN1
3 FAN2
4 FAN3
5 FAN4
6 FAN5
7 70VSENS
8 180VSENS
9 FALEO-CS
10 P.SW

CN16
TO A1 BOARD
CN6005

1 12V
2 12VA
3 GND
4 STBY+5V
5 GND
6 FASR-CS
7 FAIL-CS
8 BMP-GQ
9 BMP-01
10 BMP-CLK

CN8
TO H2 BOARD
CN801

1 COL
2 HBYPBPR
3 STBY+5V
4 VOL
5 SLAVE/MAS
6 MAS RES
7 BUSY
8 SYSRES
9 SMCS
10 SCK
11 SGTX
12 SGRX
13 MOSI
14 MISO
15 GND

B(7/9)
(SYSTEM CONTROL)

9-559583<1/C>-B...-P7

B (8/9) BOARD

①

0.4 Vp-p (H)

②

0.4 Vp-p (H)

③

0.4 Vp-p (H)

TO P2

BB
GG
+S
RR

B

G

R

1 2 3 4 5 6 7 8 9

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

IC501
MC74HC4051F
LPF SELECT

X4
X6
X
X7
X5
INH
VEE
VSS

5V
X2
X1
X0
X3
A
B
C

A0
A1
A2

C501

LPF-CTL
TO P5

B (8/9)
(R/G/B BUFF)

B (9/9)
(Y/C SEP)

① 0.7 Vp-p (H)	②
④ 0.6 Vp-p (H)	⑤
⑦ 4.9 Vp-p (V)	⑧
⑩ 5.0 Vp-p (V)	⑪
⑬ 0.3 Vp-p (14.3MHz)	⑭
⑯ 0.4 Vp-p (500kHz)	⑰
⑲ 0.6 Vp-p (H)	⑳
㉒ 1.7 Vp-p (H)	

12 13 14 15 16 17 18 19 20

A B C D E F G H I J K L M N

IC1011
CXA2111N
Y GAIN
CONTROL AMP

IC1006
CXP3E
Y SW

IC1007
CXP3E
C SW

IC1009
APC1863GS
CLOCK GEN.

IC1008
MC74HC4052F
CLOCK SW

IC1010
TC4S68F
INV.

Q1007 2SC2412K BUFF
Q1008 2SC2412K BUFF
Q1009 2SC2412K BUFF
Q1010 2SC2412K BUFF
Q1011 2SC2412K BUFF
Q1012 2SC2412K BUFF
Q1013 2SC2412K BUFF
Q1014 2SC2412K
Q1015 2SC2412K BUFF
Q1016 2SA1037AK
Q1018 2SC2412K CLOCK BUFF
Q1019 2SC2412K AFC TIME CONSTANT SW
Q1020 2SC2412K AFC TIME CONSTANT SW

COM5V 12VA

Y (NTSC) Y (PAL) C (PAL) C (NTSC)

VS PROBE TO P2
VS1R TO P5 P7 VS TO P7

8-985583

9-17   9-17

① 0.7 Vp-p (H)	② 4.8 Vp-p S: 69.7nsec	③ 4.3 Vp-p (V)
④ 0.6 Vp-p (H)	⑤ 0.4 Vp-p (H)	⑥ 4.2 Vp-p (V)
⑦ 4.9 Vp-p (V)	⑧ 5.0 Vp-p (V)	⑨ 0.7 Vp-p (8MHz)
⑩ 5.0 Vp-p (V)	⑪ 0.4 Vp-p S: 71.6nsec	⑫ 0.1 Vp-p (17.7MHz)
⑬ 0.3 Vp-p (14.3MHz)	⑭ 0.5 Vp-p (H)	⑮ 0.1 Vep S: 69.7nsec
⑯ 0.4 Vp-p (500kHz)	⑰ 0.7 Vp-p (503kHz)	⑱ 0.6 Vp-p (H)
⑲ 0.6 Vp-p (H)	⑳ 0.4 Vp-p (H)	㉑ 0.4 Vp-p (H)
㉒ 1.7 Vp-p (H)		

B1 – A SIDE –
SUFFIX: -11

B1 – B SIDE –
SUFFIX: -11

AI – A SIDE –
SUFFIX: -11

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

A

CN1001
SP

TO B BOARD (2/9)
CN10

+12V	5
+12V	4
Y.OUT	3
Y.IN	2
Y.IN	1

Q1001 2SC2412K Y BUFF
Q1002 2SC2412K Y BUFF
Q1003 2SC2412K Y BUFF
Q1004 2SC2412K Y BUFF

B

C

CN1002
SP

TO B BOARD (2/9)
CN11

GND	5
GND	4
GND	3
GND	2
GND	1

Q1005 2SC2412K Y BUFF
Q1006 2SC2412K Y BUFF
Q1007 2SC2412K Y BUFF

D

E

B1 (Y)

B-S99S83<1/C>-B1.

F

+12V 1
PHOTOSENS.2 2
GND 3
PHOTO SW 4
STBY +5V 5
THERMO2 6
GND 7

TO S1 BOARD
CN1201

+12V 1
PHOTO SENS.1 2
GND 3
PHOTO SW 4
STBY +5V 5
THERMO1 6
GND 7

G

TO S1 BOARD
CN1201

THERMO1 1
GND 2
BMP-CLK 3
BMP-DI 4
FALE0-CS 5

TO G1 BOARD
CN5005

IC6005 TC7W125FU BUFF

H

B1 BOARD

① ②

①	②
1.6 Vp-p (H)	1.0 Vp-p (H)

I

AI BOARD IC6004 MC74HC74AF

AI BOARD IC6005
TC7W125FU

SONY 1-669-711-11

– A SIDE –
IX: -11

AI – B SIDE –
SUFFIX: -11

AI
(SENSOR DET)

TO B BOARD (7/9)
CN16

TO B BOARD (7/9)
CN17

AI BOARD   IC6004   MC74HC74AF

AI – A SIDE –
SUFFIX: -11

AI – B SIDE –
SUFFIX: -11

SONY 1-888-711-11

8   9   10   11   12   13   14   15   16   17   18   19

TO S1 BOARD
CN1201

+12V
PHOTOSENS.2
GNB
PHOTO SW
STBY +5V
THERMO2
GNB

TO S1 BOARD
CN1201

+12V
PHOTO SENS.1
GNB
PHOTO SW
STBY +5V
THERMO1
GNB

TO G1 BOARD
CN5005

THERMO1
GNB
BMP-CLK
BMP-GI
FALED-CS

IC6002
TC35005SAF
AB CONV.

IC6004
MC74HC74AF
D-FF

IC6003 (5/6)
MC74HC14
INV.

IC6003 (1/6)
MC74HC14
INV.

IC6003 (3/6)
MC74HC14
INV.

IC6003 (2/6)
MC74HC14
INV.

IC6003 (6/6)
MC74HC14
INV.

IC6003 (4/6)
MC74HC14
INV.

IC6005
TC7J125FU
BUFF

IC6001
MC74HC589
SHIFT REGISTER

9-18

AI BOARD IC6004 MC74HC74AF

Vcc CLK 2D 2CK 2PR 2Q 2Q̄

PR
D CK Q
CLR

CLR Q̄
CK
D PR

CLR 1D 1CK 1PR 1Q 1Q̄ GND

AI BOARD IC6005
TC7W125FU

IC1203
C1207
C1208
C1210
C1203
SONY
S

S1 – A SIDE –
SUFFIX: -11

16 17 18 19 20 21 22 23

A I
(SENSOR DET)

A
B
C
D
E
F
G
H
I

5V
R6035
:CHIP
R6056 100 :CHIP
R6037 :CHIP

R6061 R6040 R6059
:CHIP :CHIP :CHIP

R6062 :CHIP
R6058 :CHIP

10 ØMP-CLK
9   ØMP-Ø1
8   ØMP-BØ
7   FAIL-CS
6   FASR-CS   TO B BOARD (7/9)
5   GND   CN16
4   STBY +5V
3   GND
2   +12VA
1   +12VA
CN6005

C6012
:CHIP
16V
AL-CP

10 P.SW
9   FALEØ-CS
8   180V SENS.
7   70V SENS.
6   FAN5   TO B BOARD (7/9)
5   FAN4   CN17
4   FAN3
3   FAN2
2   FAN1
1   GND
CN6001

R6053 10 :CHIP
R6054 10 :CHIP
R6055 10 :CHIP
R6056 10 :CHIP
R6057 :CHIP

5V
C6034
:CHIP
IC6004
MC74HC74AF
Ø-FF

C6029 C6030 C6031 C6032 C6033
:CHIP :CHIP :CHIP :CHIP :CHIP

RST1
CLK1
SET1

RST2
CLK2
SET2

5V

C6006
:CHIP

14
IC6003 (1/6)
MC74HC14
INV.

IC6003 (3/6)
MC74HC14
INV.

IC6003 (2/6)
MC74HC14
INV.

IC6003 (4/6)
MC74HC14
INV.
13

12

+12V

B-S99583<U/C>-AI.

1 2 3

A
B
C
D
E
F
G

SENS+ 1
SENS-   2
        3
CN1202
WHT

12V
C1205 C1204 R1205
:CHIP 16V   4.7k :CHIP

IC1203
APC1093J
SENSOR

12V
+12V   1
PHOTO.SENS1/2 2 3.5
GND   3
TO AI BOARD PHOTO.SW 4
CN6002, 6003 STBY+5V   5
THERMO1/2   6 1.4
GND   7
CN1201
WHT

IC1202
APC3
BUFF

5V
C1201
1A :CHIP
C120
0.0
:CHIP

9-18   9-18

AI BOARD IC6005
TC7W125FU

S1 – A SIDE –
SUFFIX: -11

S1 – B SIDE –
SUFFIX: -11

A I

(SENSOR DET)

10	6MP-CLK
9	6MP-OI
8	6MP-8O
7	FAIL-CS
6	FASR-CS
5	GN0
4	STBY +5V
3	GN0
2	+12VA
1	+12VA

TO B BOARD (7/9)
CN16

CN6005

10	P.SW
9	FALE0-CS
8	180V SENS.
7	70V SENS.
6	FAN5
5	FAN4
4	FAN3
3	FAN2
2	FAN1
1	GN0

TO B BOARD (7/9)
CN17

CN6001

B-SS9583<U/C>-AI.

S1
(SENSOR)

SENS+ 1
SENS− 2
3
CN1202
WHT

+12V	1
PHOTO.SENS1/2	2
GN0	3
PHOTO.SW	4
STBY+5V	5
THERMO1/2	6
GN0	7

TO AI BOARD
CN6002, 6003

CN1201
WHT

IC1203
APC1093J
SENSOR

IC1204 (1/2)
TL082CPS
BUFF

IC1204 (2/2)
TL082CPS
BUFF

IC1207 (2/2)
APC358
BUFF

IC1201
LM35DZ
THERMO SENSOR

IC1202 (1/2)
APC358
BUFF

B-SS9583<U/C>-S1.

9-18   9-18

PFM-500A1WU/PFM-500A1WE

G1 – A SIDE –
SUFFIX: -11

SONY G1
CN5001
A-131T- 644-A
CN5002
1-869-710-11
CN5005 CN5003 CN5004

G1 – B SIDE –
SUFFIX: -11

SONY G1
CN5001
1-869-710-11
CN5002
CN5003 CN5005

A	TO K BOARD CN502	AUDIO− 1	
		AUDIO− 2	
		AUDIO+B 3	
		AUDIO+B 4	
		CN5002 4P :WHT :ELCO	
B		MON.ROUT 1	
		GND 2	
		MON.LOUT 3	
	TO K BOARD CN503	GND 4	
		SP.ROUT (−) 5	
		SP.ROUT (+) 6	AUDIO (R)
		GND 7	
C		SP.LOUT (−) 8	
		SP.LOUT (+) 9	AUDIO (L)
		CN5001 9P :WHT :ELCO	

TO AI BOARD CN6004:
1 THERMO1
2 GND
3 @MP-CLK
4 @MP-OI
5 FALE@-CS
CN5005 5P :RED :ELCO

D	GND B1	
	THERMO1 B1	
	@MP-OI A2	
	@MP-CLK B2	
	GND A3	
	FALE@-CS B3	
	SP.LOUT (+) A4	
E	GND B4	
	GND A5	
	SP.LOUT (−) B5	
	SP.ROUT (−) A6	
	MON.LOUT A7	AUDIO (R)
F	GND B7	
	MON.ROUT A8	
	GND B8	
	AUDIO+B A9	
	AUDIO+B B9	
	AUDIO− A10	
	AUDIO− B10	
G	TO G2 BOARD CN4007	CIRCS (IN) A11
	GND B11	
	STBY A12	
	CIRCS (OUT) B12	

G1 (CONNECTION)

CN5003 3PIN :RED :ELCO

TO H2 BOARD CN871:
1 CIRCS (IN)
2 CIRCS (OUT)
3 GND

	STBY+5V A13	
H	STBY+5V B13	
	5V@ A14	STBY+5V
	5V@ B14	+5V@
	@GND A15	
	@GND B15	
	6V A16	
	6V B16	+6V
	GND A17	
I	GND B17	
	13V A18	+13V
	13V B18	
	12V A19	+12V
	12V B19	
	180V_SEN A20	
J	70V_SEN B20	
	CN5004 40P	

TO B BOARD (2/9) CN6:
1 STBY
2 STBY+5V
3 5V@
4 5V@
5 @GND
6 @GND
7 6V
8 6V
9 GND
10 GND
11 13V
12 12V
13 12V

TO B BOARD (7/9) CN19:
14 70V_SEN
15 180V_SEN

B-SS9583<U/C>-01.
CN5004 15P :RED :ELCO

RIGHT SIDE (B):

A	TO G BOARD CN8 ⑤.⑥ pins	THERMO1 1
		GND 2
		CN4001 4P :WHT :S-MICRO
B	TO AF BOARD CN6501	@MP-@I 1
		@MP-CLK 2
		FALE@-CS 3
		GND 4
		STBY+5V 5
		CN4008 5P :WHT :S-MICRO
C	TO UA BOARD CN1102	MON.ROUT 1
		GND 2
		MON.LOUT 3
		GND 4
		SP.ROUT (−) 5
		SP.ROUT (+) 6	AUDIO (R)
		GND 7
		SP.LOUT (−) 8
D		SP.LOUT (+) 9	AUDIO (L)
		CN4003 9P :WHT :S-MICRO
E	TO @ BOARD CN6	AUDIO− 1
		AUDIO− 2
		AUDIO+B 3
		AUDIO+B 4
		CN4004 4P :WHT :S-MICRO
F	TO UA BOARD CN1101	STBY+5V 1
		SIRCS (IN) 2
		SIRCS (OUT) 3
		CN4305 3P :BLK :S-MICRO
G	TO G BOARD CN7	STBY 1
		STBY+5V 2
		STBY+5V 3
		5V@ 4
		5V@ 5
		@GND 6
		6V 7
		6V 8
		GND 9
		GND 10
		13V 11
		13V 12
H		12V 13
		12V 14
		12V 15
		CN4006 15P :WHT :S-MICRO
I	TO @ BOARD CN8 ①–④ pins	70V_SEN 1
		GND 2
		180V_SEN 3
		GND 4
		CN4002 4P :RED :S-MICRO

(CONN...)

SONY
1-869-713-11

G2 – B SIDE –
SUFFIX: -11

G2
(CONNECTION)

A1	GND		
B1	THERMO1		
A2	GMP-DI		
B2	GMP-CLK		
A3	GND		
B3	FALE0-CS		
A4	SP.LOUT (+)	AUDIO (L)	
B4	GND		
A5	GND		
B5	SP.LOUT (-)		
A6	SP.ROUT (-)		
B6	SP.ROUT (+)		
A7	MON.LOUT	AUDIO (R)	
B7	GND		
A8	MON.ROUT		
B8	GND		
A9	AUDIO+B	AUDIO+B	
B9	AUDIO+B		
A10	AUDIO-		
B10	AUDIO-		
A11	CIRCS (IN)		TO G1 BOARD
B11	GND		CN5006
A12	STBY		
B12	CIRCS (OUT)		
A13	STBY+5V	STBY+5V	
B13	STBY+5V		
A14	5V0	+5V0	
B14	5V0		
A15	BGND		
B15	BGND		
A16	6V	+6V	
B16	6V		
A17	GND		
B17	GND		
A18	13V	+13V	
B18	13V		
A19	12V	+12V	
B19	12V		
A20	180V_SEN		
B20	70V_SEN		

CN4007
40P

AUDIO (R)
AUDIO (L)

B-SS9583<U/C>-02.

9-19

CN502 CN503 C521

C522 R530 C522 C534

C539

C529

R528

K

C532

C531 D504 C535

C530 D501

IC502

A-1380- 4574-A

	1	2	3	4	5	6
A						
B						
C						
D						
E						
F						
G						
H						

K BOARD   IC501   TA8184F

CH 1 BASS/TREBLE	CH 1 VOLUME/BALANCE

CONTROL,BIAS,REF VOLTAGE

CH 2 BASS/TREBLE	CH 2 VOLUME/BALANCE

K BOARD   IC502   TA8216H

AMP1
400Ω 20kΩ
400Ω 20kΩ
AMP2

K (AUDIO CONTROL)

AUDIO (L) C512

CN501 WHT :S-MICRO

R501 C503
AUDIO (L)

9V	1
VOL	2
A.MUTE	3
AUDIO L	4
GND	5
AUDIO R	6
STBY 5V	7

TO H2 BOARD
CN802

L501 100μH

AUDIO (L)

C505 C507 C509
C514

C533

C501 VCC LIN NC CL CLB LOUT RIP TRE

C506

GND RIN NC CL CLB ROUT BAL VOL

AUDIO (R)

AUDIO (R) C504
C508 C510 C511 C513

C534

R503 R505 R504

AUDIO (R)

K – A SIDE –
SUFFIX: -11

K – B SIDE –
SUFFIX: -11

| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

TO G1 BOARD
CN5002

CN502
4P
WHT
:S-MICRO

| 1 | 2 | 3 | 4 |
| AUDIO- | AUDIO- | AUDIO+B | AUDIO+B |

TO G1 BOARD
CN5001

CN503
9P
WHT
:S-MICRO

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| MON.ROUT | GND | MON.LOUT | GND | SP.ROUT(-) | SP.ROUT(+) | GND | SP.LOUT(-) | SP.LOUT(+) |

AUDIO (R)   AUDIO (L)
2.9   2.6

+9V

Q502
2SC2412K
BUFF

R518
:CHIP

IC502
TA8216H
AUDIO AMP

C521
10

R516
:CHIP

C535
470p B:CHIP

R519
:CHIP

AUDIO (L)   AUDIO (R)   AUDIO (R)

C512
16V
:CT-CP

R507
:CHIP

R510
:CHIP

R511
22K
:CHIP

C516
:CHIP

C514
50V
:CT-CP

R508
:CHIP

C536
470p
B:CHIP

R520
4.7k
:CHIP

R521
4.7k
:CHIP

C523
35V

C524
35V

C525
35V

R522
:CHIP

C530
2200
35V

Q506
B1N20R

Q504
B1N20R

C529
2200
35V

Q504
2SC2412K
MUTE

Q505
2SC2412K
MUTE

R528
:CHIP

| 18 | 17 | 16 | 15 | 14 | 13 |
| LOUT | RIP | TRE | NC | NC | BASS |

IC501
TA8184F
AUDIO
CONTROL

| 7 | 8 | 9 | 10 | 11 | 12 |
| ROUT | BAL | VOL | NC | LOUD | REF L.ADJ |

Q501
MA111

AUDIO (R)

R517
:CHIP

R502
RB56E5B2

C522
35V
:CHIP

R520
:CHIP

R521
:CHIP

C526
35V

C527
35V

C528
35V

Q503
2SC2412K
MUTE

R524
:PR6

R525
100k
:CHIP

R527
:PR6

R529
:CHIP

C531
:MPS

R526
100k
:CHIP

C537
:MPS

C538
4.7
16V

C539
4.7
16V

C512
22K
:CHIP

C513
50V
B:CHIP

R514
22K
:CHIP

C515
35V
:CT-CP

C518
10

R504
22K
:CHIP

+9V

AUDIO (R)

Q506
2SC2412K
BUFF

Q501
3.3k
:CHIP

B-SS9583<U/C>-K..

UA (AUDIO OUT, SIRCS IN/OUT)

UA – B SIDE –
SUFFIX: -11

AF (DISPLAY)

AF – A SIDE –
SUFFIX: -11

AF – B SIDE –
SUFFIX: -11

PFM-500A1WU/PFM-500A1WE

G (1/8) (SWITCHING REGULATOR)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

⚠ G (2/6) (SWITCHING REGULATOR)

TO P1,P3-5

TO P1,P4   SYNC

TO P3   ON/OFF

TO P4

Primary   Secondary

T100

Q100
Q110
ZD100
Q101
Q102 Q103
Q104 R105
R100
R100
R101
R102 R103
R104
R106
R107
Q102
Q103
R108 C102
C103
C104
C100
C101
L100
JW100

C110 C111   R110 R110 R110
R110
C112
C113
C114
C115
L110
R111 R111
R111
Q110
C115 R112
R114 C116
R115

VA
VA SEN
GND   TO P3-6

R119
R120
R121
C117

ZD110 ZD111 ZD112 R118
R116 R117   VR110
VR111

0V

IC300 (1/4)
C300 R301
R300
Q300
R302
IC300 (2/4)
R305
R304
C302
5V
R303
C301
Q301
R306
R307 R308
R309
IC301
Q310 R311
IC300 (3/4)
IC300 (4/4)
R312 ZD300
C303 R313

TO P3,P4,P6

V+
VRA   TO P3
V-   TO P3,P4
LV   TO P3,P4,P6

PC100

C104
C118

G (3/6) (SWITCHING REGULATOR)

Primary   Secondary

TO P1,P2,P4,P6
TO P1
TO P1,P2,P4,P6
TO P2   ON/OFF

STBY5V   TO P5
TH1   TO P4
ON0   TO P2-6

LV   TO P2,P4,P6
V+
VRS   TO P4
V-   TO P2,P4
VRA   TO P2
ON0   TO P2-6
0V   TO P2,P4,P6

TO PLASMA PANEL UNIT
CN4
7P

1	VCC
2	NC
3	VRS
4	NC
5	VRA
6	N
7	VRR

G (4/6) (SWITCHING REGULATOR)

G   G

PFM-500A1WU/PFM-500A1WE